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(71) Applicant (for all designated States except US): VERTEX PHARMACEUTICALS INCORPORATED [US/US]; 130 Waverly Street, Cambridge, MA 02139-4242 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): KIM, Joseph, L. [US/US]; 20 Ridge Avenue, Natick, MA 01760 (US). MORGEN-STERN, Kurt, A. [US/US]; 17B Bonnie Lane, Derry, NH 03038 (US). LIN, Chao [US/US]; 295 Harvard Street, Cambridge, MA 02139 (US). FOX, Ted [US/US]; 4 Reeves Road, Maynard, MA 01754 (US). THOMSON, John, A. [US/US]; 105 Slade Street, Belmont, MA 02178 (US).

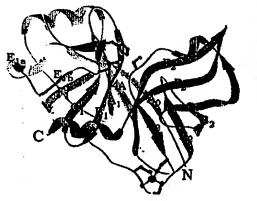
(74) Agents: HALEY, James, F., Jr.; Fish & Neave, 1251 Avenue of the Americas, New York, NY 10020-1104 (US) et al.

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#### (57) Abstract

The present invention relates to compositions and crystals of a hepatitis C virus protease in complex with its viral cofactor. This invention also relates to methods of using the structure coordinates of hepatitis C virus protease in complex with a synthetic NS4A to solve the structure of similar or homologous proteins or protein complexes.

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# CRYSTALLIZABLE COMPOSITIONS COMPRISING A HEPATITIS C VIRUS NS3 PROTEASE DOMAIN/NS4A COMPLEX AND CRYSTALS THEREBY OBTAINED

## TECHNICAL FIELD OF INVENTION

The present invention relates to compositions and crystals of a hepatitis C virus protease in complex with its viral cofactor. This invention also relates to methods of using the structure coordinates of hepatitis C virus protease in complex with a synthetic NS4A to solve the structure of similar or homologous proteins or protein complexes.

## BACKGROUND OF THE INVENTION

Infection by hepatitis C virus (HCV) is a compelling human medical problem. HCV is recognized as the causative agent for most cases of non-A, non-B hepatitis, with an estimated human seroprevalence of 1% globally [Choo, Q.-L. et al., "Isolation of a cDNA Clone Derived From a Blood-Borne Non-A, Non-B Viral Hepatitis Genome", Science, 244, pp. 359-362 (1989); Kuo, G. et al., "An Assay for Circulating Antibodies to a Major Etiologic Virus of Human Non-A, Non-B Hepatitis", Science, 244, pp. 362-364 (1989); Purcell, R.H., "Hepatitis C virus: Historical perspective and current concepts", FEMS Microbiology Reviews, 14, pp. 181-192 (1994); Van der Poel, C.L., "Hepatitis C Virus. Epidemiology, Transmission and Prevention in Hepatitis C virus. Current Studies in Hematology and Blood Transfusion, H.W. Reesink, Ed., (Basel: Karger), pp. 137-163 (1994)]. Four million individuals may be

infected in the United States alone [Alter, M.J. and Mast, E.E., "The Epidemiology of Viral Hepatitis in the United States, <u>Gastroenterol</u>. Clin. North Am., 23, pp. 437-455 (1994)].

5 Upon first exposure to HCV only about 20% of infected individuals develop acute clinical hepatitis while others appear to resolve the infection spontaneously. In most instances, however, the virus establishes a chronic infection that persists for decades [Iwarson, S. "The Natural Course of Chronic 10 Hepatitis", FEMS Microbiology Reviews, 14, pp. 201-204 This usually results in recurrent and progressively worsening liver inflammation, which often leads to more severe disease states such as cirrhosis 15 and hepatocellular carcinoma [Kew, M.C., "Hepatitis C and Hepatocellular Carcinoma", FEMS Microbiology Reviews, 14, pp. 211-220 (1994); Saito, I., et al. "Hepatitis C Virus Infection is Associated with the Development of Hepatocellular Carcinoma", Proc. Natl. Acad. Sci. USA 87, pp. 6547-6549 (1990)]. Currently, 20 there are no broadly effective treatments for the debilitating progression of chronic HCV.

The HCV genome encodes a polyprotein of 3010-3033 amino acids (Figure 1) [Choo, Q.-L., et al.

"Genetic Organization and Diversity of the Hepatitis C Virus", Proc. Natl. Acad. Sci. USA, 88, pp. 2451-2455 (1991); Kato, N. et al., Molecular Cloning of the Human Hepatitis C Virus Genome From Japanese Patients with Non-A, Non-B Hepatitis", Proc. Natl. Acad. Sci. USA, 87, pp. 9524-9528 (1990); Takamizawa, A. et al., "Structure and Organization of the Hepatitis C Virus Genome Isolated From Human Carriers", J. Virol., 65, pp. 1105-1113 (1991)]. The HCV nonstructural (NS)

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proteins provide catalytic machinery for viral replication. The NS proteins are derived by proteolytic cleavage of the polyprotein [Bartenschlager, R. et al., "Nonstructural Protein 3 of the Hepatitis C Virus Encodes a Serine-Type Proteinase 5 Required for Cleavage at the NS3/4 and NS4/5Junctions", <u>J. Virol.</u>, 67, pp. 3835-3844 (1993); Grakoui, A. et al. "Characterization of the Hepatitis C Virus-Encoded Serine Proteinase: Determination of Proteinase-Dependent Polyprotein Cleavage Sites", J. 10 <u>Virol.</u>, 67, pp. 2832-2843 (1993); Grakoui, A. et al., Expression and Identification of Hepatitis C Virus Polyprotein Cleavage Products", J. Virol., 67, pp. 1385-1395 (1993); Tomei, L. et al., "NS3 is a serine protease required for processing of hepatitis C virus 15 polyprotein", J. Virol., 67, pp. 4017-4026 (1993)]. The HCV NS protein 3 (NS3) contains a serine protease activity that helps process the majority of the viral enzymes, and is thus considered essential for 20 viral replication and infectivity. It is known that mutations in the yellow fever virus NS3 protease decreases viral infectivity [Chambers, T.J. et. al., "Evidence that the N-terminal Domain of Nonstructural Protein NS3 From Yellow Fever Virus is a Serine 25 Protease Responsible for Site-Specific Cleavages in the Viral Polyprotein", Proc. Natl. Acad. Sci. USA, 87, pp. 8898-8902 (1990)]. The first 181 amino acids of NS3 (residues 1027-1207 of the viral polyprotein) have been

shown to contain the serine protease domain of NS3 that processes all four downstream sites of the HCV polyprotein (Figure 1) [C. Lin et al., "Hepatitis C Virus NS3 Serine Proteinase: Trans-Cleavage

Requirements and Processing Kinetics", <u>J. Virol.</u>, 68, pp. 8147-8157 (1994)].

NS3 is associated with a cofactor, NS4A. NS4A seems critical to the activity of NS3, enhancing 5 the proteolytic efficiency of NS3 at all of the cleavage sites. NS4A is a 54 residue amphipathic peptide, with a hydrophobic N-terminus and a hydrophilic C-terminus [Failla, C. et al., "Both NS3 and NS4A are Required for Proteolytic Processing of 10 Hepatitis C Virus Nonstructural Proteins", J. Virol., 68, pp. 3753-3760 (1994)]. Its function appears complex, possibly assisting in the membranelocalization of NS3 and other viral replicase components [Lin, C. et al. "A Central Region in the Hepatitis C Virus NS4A Protein Allows Formation of an 15 Active NS3-NS4A Serine Proteinase Complex In Vivo and In Vitro", J. Virol., 69, pp. 4373-4380 (1995b); Shimizu, Y. et al., "Identification of the Sequence on NS4A Required for Enhanced Cleavage of the NS5A/5B Site 20 by Hepatitis C Virus NS3 Protease", J. Virol., 70, pp. 127-132 (1996); Tanji, Y. et al., "Hepatitis C Virus-Encoded Nonstructural Protein NS4A has Versatile Functions in Viral Protein Processing", J. Virol., 69, pp. 1575-1581 (1995)] but its best characterized 25 function is that of a cofactor for the NS3 protease.

The current understanding of HCV has not led to satisfactory treatments for HCV infection. The prospects for effective anti-HCV vaccines remain uncertain. The only established therapy for HCV disease is interferon treatment. However, interferons have significant side effects [Janssen, H. L. A., et al. "Suicide Associated with Alfa-Interferon Therapy for Chronic Viral Hepatitis", J. Hepatol., 21, pp. 241-

243 (1994)]; Renault, P.F. and Hoofnagle, J.H., "Side effects of alpha interferon. Seminars in Liver Disease 9, 273-277. (1989)] and induce long term remission in only a fraction (~ 25%) of cases [Weiland, O.

"Interferon Therapy in Chronic Hepatitis C Virus Infection", <u>FEMS Microbiol. Rev.</u>, 14, pp. 279-288 (1994)]. Thus, there is a need for more effective anti-HCV therapies.

The NS3 protease is considered a potential target for antiviral agents. However, drug discovery 10 efforts directed towards the NS3 protein have been hampered by the lack of structural information about NS3 and its complex with NS4A. Such structural information would provide valuable information in 15 discovery of HCV NS3 protease inhibitors. However, efforts to determine the structure of HCV NS3 protease have been hampered by difficulties in obtaining sufficient quantities of pure active enzyme [Steinkuhler, C. et al., "In Vitro Activity of 20 Hepatitis C Virus Protease NS3 Purified from Recombinant Baculovirus-Infected Sf9 Cells", J. Biol Chem., pp. 637-6273 (1996)]. There have been no crystals reported of any NS3 or NS3 protease domain protein. Thus, x-ray crystallographic analysis of such 25 proteins has not been possible.

## SUMMARY OF THE INVENTION

Applicants have solved this problem by

30 providing, for the first time, compositions comprising
a hepatitis C virus (HCV) NS3 protease-like polypeptide
complexed with a NS4A-like peptide and methods for
making such compositions.

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The invention also provides crystals of a HCV NS3 protease-like polypeptide/NS4A-like peptide complex and methods for making such crystals.

The invention also provides the structure coordinates of a HCV NS3 protease-like polypeptide/NS4A-like peptide complex.

The invention also provides a method for determining at least a portion of the three-dimensional structure of molecules or molecular complexes which contain at least some structurally similar features to a HCV NS3 serine protease domain.

## BRIEF DESCRIPTION OF THE FIGURES

The locations of the HCV structural and nonstructural proteins are marked on a diagram of the 3011 amino acid polypeptide. Cleavages between the structural proteins by cellular signal peptidases are marked by asterisks.

Cleavage between NS2 and NS3 is mediated by the NS2/NS3 metallo-protease. The NS3 serine protease is responsible for cleavages between NS3 and NS4A, NS4A and NS4B, NS4B and NS5A, and NS5A and NS5B.

Figure 2 depicts stereo ribbon diagrams of the NS3/NS4A complex. The view is into the active site cleft of the enzyme. Side-chains of active site residues His-1083, Asp-1107, and Ser-1165, along with Zn<sup>++</sup> ligands Cys-1123, Cys-1125, and Cys-1171 are displayed in ball-and-stick representation. Zn<sup>++</sup>, its H<sub>2</sub>O ligand, and the  $\beta$ -strand formed by NS4A are also shown.

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Figure 3 lists the atomic structure coordinates for hepatitis C virus recombinant, truncated nonstructural protein 3 (hereafter referred to as tNS3) in complex with a synthetic peptide of the central region of the nonstructural protein 4A (hereafter referred to as sNS4A) as derived by X-ray diffraction from crystals of that complex (hereafter referred to as tNS3/sNS4A). The preparation of the complex is described in Examples 1 and 2. The following abbreviations are used in Figure 3:

"Atom type" refers to the element whose coordinates have been determined. Elements are defined by the first letter in the column except for zinc which is defined by the letters "Zn".

"X, Y, Z" crystallographically define the atomic position determined for each atom.

"B" is a thermal factor that measures movement of the atom around its atomic center.

"Occ" is an occupancy factor that refers to the fraction of the molecules in which each atom occupies the position specified by the coordinates. A value of "1" indicates that each atom has the same conformation, i.e., the same position, in all molecules of the crystal.

Figure 4 shows a diagram of a system used to carry out the instructions encoded by the storage medium of Figures 5 and 6.

Figure 5 shows a cross section of a magnetic storage medium.

Figure 6 shows a cross section of a optically-readable data storage medium.

H = His = Histidine

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## DETAILED DESCRIPTION OF THE INVENTION

The following abbreviations are used throughout the application:

A = Ala = AlanineT = Thr = ThreonineV = Val = Valine C = Cys = Cysteine L = Leu = Leucine Y = Tyr = TyrosineI = Ile = Isoleucine N = Asn = AsparagineP = Pro = ProlineQ = Gln = Glutamine F = Phe = Phenylalanine D = Asp = Aspartic Acid W = Trp = TryptophanE = Glu = Glutamic AcidM = Met = Methionine K = Lys = LysineG = Gly = GlycineR = Arg = Arginine

HCV = hepatitis C virus

S = Ser = Serine

Additional definitions are set forth in the specification where necessary.

In order that the invention described herein may be more fully understood, the following detailed description is set forth.

Applicants have solved the above problems by providing, for the first time, crystallizable compositions comprising a HCV NS3 protease-like polypeptide in complex with a NS4A-like peptide.

Thus, in one embodiment of this invention is provided a composition comprising a hepatitis C virus NS3-like polypeptide in complex with an NS4A-like peptide.

The HCV NS3-like polypeptide portion of the complex is any polypeptide which has the serine protease activity of the naturally occurring HCV NS3A protease, particularly the ability to cleave the HCV

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polyprotein. It includes HCV NS3, NS3 protease domain polypeptides and NS3 protease domain-like polypeptides.

As used herein, the terms "HCV NS3" and "NS3" refers to the hepatitis C virus nonstructural-3 protein as defined in Lin, C. et al., "Hepatitis C Virus NS3 Serine Proteinase: Trans-Cleavage Requirements and Processing Kinetics", J. Virol., 68, pp. 8147-8157 (1994).

The term "NS3 protease domain polypeptide" 10 refers to a truncated, serine protease portion of NS3 as defined in [Bartenschlager, R. et al., "Nonstructural Protein 3 of the Hepatitis & Virus Encodes a Serine-Type Proteinase Required for Cleavage at the NS3/4 and NS4/5 Junctions", J. Virol., 67, pp. 15 3835-3844 (1993); Grakoui, A. et al. "Characterization of the Hepatitis C Virus-Encoded Serine Proteinase: Determination of Proteinase-Dependent Polyprotein Cleavage Sites", J. Virol., 67, pp. 2832-2843 (1993); Grakoui, A. et al., Expression and Identification of 20 Hepatitis C Virus Polyprotein Cleavage Products", J. Virol., 67, pp. 1385-1395 (1993); Tomei, L. et al., "NS3 is a serine protease required for processing of hepatitis C virus polyprotein", J. Virol., 67, pp. 4017-4026 (1993)]. The disclosure of each of these 25 documents is herein incorporated by reference.

The term "NS3 protease domain-like polypeptides" refers to polypeptides that differ from NS3 protease domain polypeptides by having amino acid deletions, substitutions, and additions, but which retain the serine protease activity of NS3.

Preferably, the NS3-like polypeptide in the compositions of this invention is tNS3, a recombinantly

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produced hepatitis C virus protease domain protein that is prepared as described herein.

The NS4A-like peptide portion of the compositions of this invention is any peptide or peptide mimetic that is capable of acting as a NS4A cofactor for the NS3. These include NS4A, peptide fragments thereof and other peptides that differ from NS4A by having amino acid deletions, substitutions, and additions, while retaining the above-described activity.

As used herein the term "NS4A" refers to the hepatitis C virus nonstructural protein 4A which acts as a cofactor for NS3 protease [Failla, C. et al., "Both NS3 and NS4A are Required for Proteolytic Processing of Hepatitis C Virus Nonstructural Proteins"

J. Virol. 68, pp. 3753-3760 (1994); Lin, C. et al., "Hepatitis C Virus NS3 Serine Proteinase: Trans-Cleavage Requirements and Processing Kinetics" J.

Virol. 68, pp. 8147-8157 (1994b)]

Preferably, the NS4A-like peptide is sNS4A, the synthetic peptide H-KKGSVVIVGRIVLSGKPAIIPKK-OH. This peptide encompasses the essential NS3 protease domain residues of NS4A.

Both the NS3-like polypeptide and the NS4A-like peptide may be produced by any well-known method, including synthetic methods, such as solid phase, liquid phase and combination solid phase/liquid phase syntheses; recombinant DNA methods, including cDNA cloning, optionally combined with site directed mutagenesis; and/or purification of the natural products, optionally combined with enzymatic cleavage methods to produce fragments of naturally occurring NS3 and NS4A.

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According to a preferred embodiment, the compositions of this invention are crystallizable. In this preferred embodiment all of the preferred choices for the NS3-like polypeptide and the NS4A-like peptide are identical to those indicated above.

Advantageously, the crystallizable composition provided by this invention are amenable to x-ray crystallography. Thus, this invention also provides the three-dimensional structure of an HCV NS3-like polypeptide/NS4A-like peptide complex, specifically an HCV tNS3/sNS4A complex, at 2.5 Å resolution. Importantly, this has provided for the first time, information about the shape and structure of the NS3 protease domain.

The three-dimensional structure of the HCV tNS3/sNS4A complex of this invention is defined by a set of structure coordinates as set forth in Figure 3. The term "structure coordinates" refers to Cartesian coordinates derived from mathematical equations related to the patterns obtained on diffraction of a monochromatic beam of X-rays by the atoms (scattering centers) of an tNS3/sNS4A complex in crystal form. The diffraction data are used to calculate an electron density map of the repeating unit of the crystal. The electron density maps are then used to establish the positions of the individual atoms of the tNS3/sNS4A enzyme or enzyme complex.

Those of skill in the art will understand that a set of structure coordinates for an enzyme or an enzyme-complex or a portion thereof, is a relative set of points that define a shape in three dimensions. Thus, it is possible that an entirely different set of coordinates could define a similar or identical shape.

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Moreover, slight variations in the individual coordinates will have little effect on overall shape.

The variations in coordinates discussed above may be generated because of mathematical manipulations of the structure coordinates. For example, the structure coordinates set forth in Figure 3 could be manipulated by crystallographic permutations of the structure coordinates, fractionalization of the structure coordinates, integer additions or subtractions to sets of the structure coordinates, inversion of the structure coordinates or any combination of the above.

Alternatively, modifications in the crystal structure due to mutations, additions, substitutions, and/or deletions of amino acids, or other changes in any of the components that make up the crystal could also account for variations in structure coordinates. If such variations are within an acceptable standard error as compared to the original coordinates, the resulting three-dimensional shape is considered to be the same.

Various computational analyses are therefore necessary to determine whether a molecule or molecular complex or a portion thereof is sufficiently similar to all or parts of the NS3-like polypeptide/NS4A-like peptide structure described above as to be considered the same. Such analyses may be carried out in current software applications, such as the Molecular Similarity application of QUANTA (Molecular Simulations Inc., San Diego, CA) version 4.1, and as described in the accompanying User's Guide.

The Molecular Similarity application permits comparisons between different structures, different

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conformations of the same structure, and different parts of the same structure. The procedure used in Molecular Similarity to compare structures is divided into four steps: 1) load the structures to be compared; 2) define the atom equivalences in these structures; 3) perform a fitting operation; and 4) analyze the results.

Each structure is identified by a name. One structure is identified as the target (i.e., the fixed structure); all remaining structures are working structures (i.e., moving structures). Since atom equivalency within QUANTA is defined by user input, for the purpose of this invention we will define equivalent atoms as protein backbone atoms (N, Cα, C and O) for all conserved residues between the two structures being compared. We will also consider only rigid fitting operations.

When a rigid fitting method is used, the working structure is translated and rotated to obtain an optimum fit with the target structure. The fitting operation uses an algorithm that computes the optimum translation and rotation to be applied to the moving structure, such that the root mean square difference of the fit over the specified pairs of equivalent atom is an absolute minimum. This number, given in angstroms, is reported by QUANTA.

For the purpose of this invention, any molecule or molecular complex that has a root mean square deviation of conserved residue backbone atoms (N, C $\alpha$ , C, O) of less than 1.5 Å when superimposed on the relevant backbone atoms described by structure coordinates listed in Figure 3 are considered

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identical. More preferably, the root mean square deviation is less than 1.0 Å.

The term "root mean square deviation" means the square root of the arithmetic mean of the squares of the deviations from the mean. It is a way to express the deviation or variation from a trend or object. For purposes of this invention, the "root mean square deviation" defines the variation in the backbone of a protein or protein complex from the relevant portion of the backbone of the NS3-like polypeptide portion of the complex as defined by the structure coordinates described herein.

Once the structure coordinates of a protein crystal have been determined they are useful in solving the structures of other crystals.

Thus, in accordance with the present invention, the structure coordinates of a NS3-like polypeptide/NS4A-like peptide complex, and in particular a tNS3/sNS4A complex, and portions thereof is stored in a machine-readable storage medium. Such data may be used for a variety of purposes, such as drug discovery and x-ray crystallographic analysis or protein crystal.

Accordingly, in one embodiment of this
invention is provided a machine-readable data storage
medium comprising a data storage material encoded with
the structure coordinates set forth in Figure 3.

Figure 4 demonstrates one version of these embodiments. System 10 includes a computer 11 comprising a central processing unit ("CPU") 20, a working memory 22 which may be, e.g, RAM (random-access memory) or "core" memory, mass storage memory 24 (such as one or more disk drives or CD-ROM drives), one or

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more cathode-ray tube ("CRT") display terminals 26, one or more keyboards 28, one or more input lines 30, and one or more output lines 40, all of which are interconnected by a conventional bidirectional system bus 50.

Input hardware 36, coupled to computer 11 by input lines 30, may be implemented in a variety of ways. Machine-readable data of this invention may be inputted via the use of a modem or modems 32 connected by a telephone line or dedicated data line 34.

Alternatively or additionally, the input hardware 36 may comprise CD-ROM drives or disk drives 24. In conjunction with display terminal 26, keyboard 28 may also be used as an input device.

Output hardware 46, coupled to computer 11 by output lines 40, may similarly be implemented by conventional devices. By way of example, output hardware 46 may include CRT display terminal 26 for displaying a graphical representation of a binding pocket of this invention using a program such as QUANTA as described herein. Output hardware might also include a printer 42, so that hard copy output may be produced, or a disk drive 24, to store system output for later use.

In operation, CPU 20 coordinates the use of the various input and output devices 36, 46, coordinates data accesses from mass storage 24 and accesses to and from working memory 22, and determines the sequence of data processing steps. A number of programs may be used to process the machine-readable data of this invention. Such programs are discussed in reference to the computational methods of drug discovery as described herein. Specific references to

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components of the hardware system 10 are included as appropriate throughout the following description of the data storage medium.

Figure 5 shows a cross section of a magnetic data storage medium 100 which can be encoded with a machine-readable data that can be carried out by a system such as system 10 of Figure 4. Medium 100 can be a conventional floppy diskette or hard disk, having a suitable substrate 101, which may be conventional, and a suitable coating 102, which may be conventional, on one or both sides, containing magnetic domains (not visible) whose polarity or orientation can be altered magnetically. Medium 100 may also have an opening (not shown) for receiving the spindle of a disk drive or other data storage device 24.

The magnetic domains of coating 102 of medium 100 are polarized or oriented so as to encode in manner which may be conventional, machine readable data such as that described herein, for execution by a system such as system 10 of Figure 4.

Figure 6 shows a cross section of an optically-readable data storage medium 110 which also can be encoded with such a machine-readable data, or set of instructions, which can be carried out by a system such as system 10 of Figure 4. Medium 110 can be a conventional compact disk read only memory (CD-ROM) or a rewritable medium such as a magneto-optical disk which is optically readable and magneto-optically writable. Medium 100 preferably has a suitable substrate 111, which may be conventional, and a suitable coating 112, which may be conventional, usually of one side of substrate 111.

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In the case of CD-ROM, as is well known, coating 112 is reflective and is impressed with a plurality of pits 113 to encode the machine-readable data. The arrangement of pits is read by reflecting laser light off the surface of coating 112. A protective coating 114, which preferably is substantially transparent, is provided on top of coating 112.

In the case of a magneto-optical disk, as is

well known, coating 112 has no pits 113, but has a
plurality of magnetic domains whose polarity or
orientation can be changed magnetically when heated
above a certain temperature, as by a laser (not shown).
The orientation of the domains can be read by measuring
the polarization of laser light reflected from coating
112. The arrangement of the domains encodes the data
as described above.

For the first time, the present invention permits the use of structure-based or rational drug design techniques to design, select, and synthesize chemical entities, including inhibitory compounds that are capable of binding to HCV NS3, NS4A, NS3/NS4A complex, or any portion thereof.

One particularly useful drug design technique enabled by this invention is iterative drug design. Iterative drug design is a method for optimizing associations between a protein and a compound by determining and evaluating the three-dimensional structures of successive sets of protein/compound complexes.

Those of skill in the art will realize that association of natural ligands or substrates with the binding pockets of their corresponding receptors or

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enzymes is the basis of many biological mechanisms of The term "binding pocket", as used herein, refers to a region of a molecule or molecular complex, that, as a result of its shape, favorably associates with another chemical entity or compound. Similarly, many drugs exert their biological effects through association with the binding pockets of receptors and Such associations may occur with all or any enzymes. parts of the binding pockets. An understanding of such associations will help lead to the design of drugs having more favorable associations with their target receptor or enzyme, and thus, improved biological Therefore, this information is valuable in designing potential ligands or inhibitors of receptors or enzymes, such as inhibitors of HCV NS3-like polypeptides, and more importantly HCV NS3.

The term "associating with" refers to a condition of proximity between chemical entities or compounds, or portions thereof. The association may be non-covalent -- wherein the juxtaposition is energetically favored by hydrogen bonding or van der Waals or electrostatic interactions -- or it may be covalent.

In iterative drug design, crystals of a series of protein/compound complexes are obtained and then the three-dimensional structures of each complex is solved. Such an approach provides insight into the association between the proteins and compounds of each complex. This is accomplished by selecting compounds with inhibitory activity, obtaining crystals of this new protein/compound complex, solving the three-dimensional structure of the complex, and comparing the associations between the new protein/compound complex

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and previously solved protein/compound complexes. By observing how changes in the compound affected the protein/compound associations, these associations may be optimized.

5 In some cases, iterative drug design is carried out by forming successive protein-compound complexes and then crystallizing each new complex. Alternatively, a pre-formed protein crystal is soaked in the presence of an inhibitor, thereby forming a 10 protein/compound complex and obviating the need to crystallize each individual protein/compound complex. Advantageously, the HCV NS3-like polypeptide/NS4A-like pentide crystals, and in particular the tNS3/sNS4A crystals, provided by this invention may be soaked in 15 the presence of a compound or compounds, such as NS3 protease inhibitors, to provide NS3-like polypeptide/NS4A-like peptide /compound crystal complexes.

As used herein, the term "soaked" refers to a process in which the crystal is transferred to a solution containing the compound of interest.

In another embodiment of this invention is provided a method for preparing a composition comprising a NS3-like polypeptide protein comprising the steps described in Examples 1 and 2. Preferably, the composition comprises a NS3-like polypeptide in complex with a NS4A-like peptide.

The structure coordinates set forth in Figure 3 can also be used to aid in obtaining structural information about another crystallized molecule or molecular complex. This may be achieved by any of a number of well-known techniques, including molecular replacement.

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The structure coordinates set forth in Figure 3 can also be used for determining at least a portion of the three-dimensional structure of molecules or molecular complexes which contain at least some structurally similar features to HCV NS3. In particular, structural information about another crystallized molecule or molecular complex may be obtained. This may be achieved by any of a number of well-known techniques, including molecular replacement.

Therefore, in another embodiment this invention provides a method of utilizing molecular replacement to obtain structural information about a crystallized molecule or molecular complex whose structure is unknown comprising the steps of:

a) generating an X-ray diffraction pattern from said crystallized molecule or molecular complex; and

b) applying at least a portion of the structure coordinates set forth in Figure 3 to the X-ray diffraction pattern to generate a three-dimensional electron density map of the molecule or molecular complex whose structure is unknown.

Preferably, the crystallized molecule or molecular complex comprises a NS3-like polypeptide and a NS4A-like peptide. More preferably, the crystallized molecule or molecular complex is obtained by soaking a crystal of this invention in a solution.

By using molecular replacement, all or part of the structure coordinates of the tNS3/sNS4A complex provided by this invention (and set forth in Figure 3) can be used to determine the structure of a crystallized molecule or molecular complex whose structure is unknown more quickly and efficiently than attempting to determine such information ab initio.

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Molecular replacement provides an accurate estimation of the phases for an unknown structure. Phases are a factor in equations used to solve crystal structures that can not be determined directly. Obtaining accurate values for the phases, by methods other than molecular replacement, is a time-consuming process that involves iterative cycles of approximations and refinements and greatly hinders the solution of crystal structures. However, when the crystal structure of a protein containing at least a homologous portion has been solved, the phases from the known structure provide a satisfactory estimate of the

phases for the unknown structure.

Thus, this method involves generating a preliminary model of a molecule or molecular complex whose structure coordinates are unknown, by orienting and positioning the relevant portion of the tNS3/sNS4A complex according to Figure 3 within the unit cell of the crystal of the unknown molecule or molecular complex so as best to account for the observed X-ray diffraction pattern of the crystal of the molecule or molecular complex whose structure is unknown. can then be calculated from this model and combined with the observed X-ray diffraction pattern amplitudes to generate an electron density map of the structure whose coordinates are unknown. This, in turn, can be subjected to any well-known model building and structure refinement techniques to provide a final, accurate structure of the unknown crystallized molecule or molecular complex [E. Lattman, "Use of the Rotation and Translation Functions", in Meth. Enzymol., 115, pp. 55-77 (1985); M. G. Rossmann, ed., "The Molecular Replacement Method", Int. Sci. Rev. Ser., No. 13, Gordon & Breach, New York (1972)].

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The structure of any portion of any crystallized molecule or molecular complex that is sufficiently homologous to any portion of the tNS3/sNS4A complex can be solved by this method.

In a preferred embodiment, the method of molecular replacement is utilized to obtain structural information about a molecule or molecular complex, wherein the complex comprises a NS3-like polypeptide. Preferably the NS3-like polypeptide is tNS3 or homologue thereof.

The structure coordinates of tNS3/sNS4A as provided by this invention are particularly useful in solving the structure of other crystal forms of NS3-like polypeptide, preferably other crystal forms of tNS3; NS3-like polypeptide/NS4A-like peptide, preferably tNS3/sNS4A; or complexes comprising any of the above.

The structure coordinates are also particularly useful to solve the structure of crystals 20 of NS3-like polypeptide/NS4A-like peptide complexes, particularly tNS3/sNS4A, co-complexed with a variety of chemical entities. This approach enables the determination of the optimal sites for interaction between chemical entities, including interaction of candidate NS3 inhibitors with NS3 or the NS3/NS4A 25 complex. For example, high resolution X-ray diffraction data collected from crystals exposed to different types of solvent allows the determination of where each type of solvent molecule resides. 30 molecules that bind tightly to those sites can then be designed and synthesized and tested for their NS3 inhibition activity.

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All of the complexes referred to above may be studied using well-known X-ray diffraction techniques and may be refined versus 1.5-3 Å resolution X-ray data to an R value of about 0.20 or less using computer software, such as X-PLOR [Yale University, ©1992, distributed by Molecular Simulations, Inc.; see, e.g., Blundell & Johnson, supra; Meth. Enzymol., vol. 114 & 115, H. W. Wyckoff et al., eds., Academic Press (1985)]. This information may thus be used to optimize known NS3 inhibitors, and more importantly, to design new NS3 inhibitors.

In order that this invention be more fully understood, the following examples are set forth. These examples are for the illustrative purposes only and are not to be construed as limiting the scope of this invention in any way.

## EXAMPLE 1

## Expression and Purification of tNS3

20 The truncated NS3 serine protease domain (tNS3) was cloned from a cDNA of the hepatitis C virus H strain [Grakoui, A. et al., "Expression and Identification of Hepatitis C Virus Polyprotein Cleavage Products", J. Virol., 67, pp. 1385-1395 25 The first 181 amino acids of NS3 (residues 1027-1207 of the viral polyprotein) have been shown to contain the serine protease domain of NS3 that processes all four downstream sites of the HCV polyprotein [Lin, C., et al., Hepatitis C Virus NS3 30 Serine Proteinase: Trans-Cleavage Requirements and Processing Kinetics", J. Virol. 68, pp. 8147-8157 (1994b)], so we expressed a (His)6-fusion protein based on this tNS3. The plasmid pET-BS(+)/HCV/T7-NS3 $_{181}$ -His

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was derived from pTM3/HCV/1027-1207 (NS3181) (Id.), by using polymerase chain reaction to introduce epitope tags and new restriction sites. A T7-tag (ASMTGGQQMG), from the N-terminus of the gene 10 protein of the T7 bacteriophage

[Tsai, D.E. et al., "In Vitro Selection of an RNA Epitope Immunologically Cross-Reactive With a Peptide", Proc. Natl. Acad. Sci. USA, 89, pp. 8864 8868 (1992)], was placed at the N-terminus of the tNS3 domain. Two linker residues (GS) were placed at the fins3 C-terminus, followed by the (His)6-tag. Ecoli JM109(DE3) cells, freshly transformed with the pET-BS(+)/HCV/T7-NS3181-His plasmid, were grown at 37 °C in complex media supplement with 100 µg/ml ampicillin, in a 10 L fermentor (Braun). When the cell density reached an OD600 of 3-4 the temperature of the culture was rapidly reduced to 30 °C, and induction was immediately initiated by the addition of 1 mM IPTG Cells were harvested at 2 h post-induction, and flash frozen at -70 °C prior to purification.

The tNS3 was purified from the soluble fraction of the recombinant *E.coli* lysates as follows, with all procedures being performed at 4 °C unless stated otherwise. Cell paste (75-100g) was resuspended in 15 volumes of 50 mM HEPES, 0.3 M NaCl, 10% glycerol, 0.1% ß-octyl glucoside, 2 mM ß-mercaptoethanol, pH 8.0. Cells were ruptured using a microfluidizer and the homogenate was clarified by centrifugation at 100,000 x g for 30 min. The supernatant was brought to 50 mM HEPES, 20 mM imidazole, 0.3 M NaCl, 27.5% glycerol, 0.1% ß-octyl- glucoside, 2 mM ß-mercaptoethanol, pH 8.0, and applied at 1.0 ml/min to a 7.0 ml Ni-Agarose

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affinity column, equilibrated in the same buffer. After loading, the column was washed with 10-15 volumes of equilibration buffer and the bound proteins were eluted with equilibration buffer containing 0.35 M imidazole. The protein was then size-fractionated on two columns in series (each 2.6 cm x 90 cm) packed with Pharmacia high resolution S100 resin and equilibrated with 25 mM HEPES, 0.3M NaCl, 10% glycerol, 0.1% ßoctylglucoside, 2 mM ß-mercaptoethanol, pH 8.0. The tNS3 fractions, identified by SDS-PAGE, were pooled and concentrated to 1 mg/ml using a Amicon Centriprep-10, and stored at -70°C. The tNS3 was thawed slowly on ice and the NS4A peptide (dissolved in the size-exclusion chromatography buffer) was added at a tNS3:NS4A-peptide molar ratio of 1:2. The sample was then diluted 2.5fold with 15 mM MES, 0.5 M NaCl, 20 mM Bmercaptoethanol, pH6.5, and concentrated to  $\sim 2$  ml ( $\sim 2$ mg/ml) by ultrafiltration. The sample was then diluted 2-fold with the pH 6.5 buffer and concentrated again to This dilution process was repeated until it gave a >40-fold dilution of the original buffer constituents. The protein sample was then concentrated to 13.0 mg/ml and centrifuged at ~300,000 x g for 20  $\,$ min at 4 °C. Concentrations of the pure tNS3 and tNS3/4A complex were determined by UV absorption spectroscopy, using a molar absorption coefficient  $(A_{280})$  of 17,700 M<sup>-1</sup>·cm<sup>-1</sup>.

#### EXAMPLE 2

30 4A Peptide Synthesis and Purification

The HCV NS4A peptide was synthesized to span residues Gly21 to Pro39 of the viral cofactor (residues

1678 to 1696 of the HCV polyprotein), which incorporates the essential region reported to be essential for NS3 stimulation [Lin, C. et al. "A Central Region in the Hepatitis C Virus NS4A Protein Allows Formation of an Active NS3-NS4A Serine 5 Proteinase Complex In Vivo and In Vitro", J. Virol. 69, pp. 4373-4380 (1995)]. Lysine residues were added to the termini to assist aqueous solubility, and a serine residue was substituted for Cys22 (residue 1679 of the polyprotein of the HCV H strain). The peptide (H-10 KKGSVVIVGRIVLSGKPAIIPKK-OH · TFA salt) was prepared by the solid-phase peptide synthesis (Applied Biosystems 433A) beginning with Na-Fmoc, Ne-Boc-Lys Wang resin. Na-Fmoc-protected amino acids were added sequentially 15 using HBTU (2-(1H-benzotriazol-1-yl)1,1,3,3tetramethyluronium hexafluorophosphate) with HOBt (1hydroxybenzotriazole hydrate) as coupling agents in Nmethylpyrrolidinone. Cleavage from the resin and global deprotection were accomplished with 95% trifluoroacetic acid and 5% water at room temperature 20 for 1.5 hr (15 ml/ g resin). The peptide was purified by preparative HPLC on a Waters Delta Pak C18, 15 µm, 300Å column (30 mm  $\times$  300 mm) eluting with a linear gradient of acetonitrile (15-40%) in 0.1% aqueous 25 trifluoroacetic acid over 35 min (flow rate of 22 ml/min). Peptide purity was confirmed by analytical The sequence was confirmed by direct N-terminal HPLC. sequence analysis and matrix-assisted laser desorption mass spectrometry (Kratos MALDI I), which showed the correct  $(M + H)^+$  and  $(M + Na)^+$  molecular ions. 30

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#### EXAMPLE 3

## Crystallization and Data Collection

Crystals of the tNS3/NS4A complex were grown by hanging-drop vapor diffusion over a reservoir of 0.1 M MES, 1.8 M NaCl, 0.1 M sodium/potassium phosphate, 10 mM ß-mercaptoethanol, pH 6.5. The crystals grew over the course of 2-3 weeks, to final dimensions of about 0.1 x 0.1 x 0.25 mm. The rhombohedral crystals used in this study belonged to space group R32, with unit cell dimensions a=b=225.0Å, and c=75.5Å, and contained two tNS3/NS4A complexes per asymmetric unit.

Statistics for data collection, heavy atom refinement, and crystallographic refinement are given in Table 1. All heavy atom soaks were done in hangingdrops over the same reservoir as used for crystallization. Crystals were transferred to a stabilizing solution (50 mM MES, 2.0 M NaCl, 0.1 M sodium/potassium phosphate, 10 mM ß-mercaptoethanol, and 20% glycerol, pH 6.2) and then frozen in a dry nitrogen gas stream at 100 K (Molecular Structure Corp., Houston, TX) for data collection. acquired by oscillation photography on a Rigaku R-AXIS IIC phosphor imaging area detector mounted on a Rigaku RU200 rotating anode generator (MSC), operating at 50kVand 100mA. Measured intensities were integrated, scaled, and merged using the HKL software package (Z. Otwinowski and W. Minor).

#### EXAMPLE 4

Phasing, Model Building and Refinement

Heavy atom positions were located by inspection and confirmed with difference Fourier syntheses. Heavy atom parameters were refined and

phases computed to 3.1Å using the program PHASES [Furey, W. and Swaminathan, S. "PHASES-95: a program package for the processing and analysis of diffraction data from macromolecules", Meth. Enzymol., (1996). 5 phases were improved and extended to 2.7Å by cycles of solvent flattening [Wang, B.C., "Resolution of Phase Ambiguity in Macromolecular Crystallography, Methods in Enzymol. 115, pp. 90-112 (1985)] combined with histogram matching [Zhang, K.Y.J. and Main, P., "The 10 Use of Sayre's Equation With Solvent Flattening and Histogram Matching for Phase Extension and Refinement of Protein Structures", Acta Crystallogr., A46, pp. 377-381 (1990)] using the CCP4 crystallographic package (Collaborative Computation Project, 1994). resulting electron density map displayed nearly 15 continuous density for the protein backbone as well as strong side chain density. Approximately 80% of the model could be unambiguously built into this map (QUANTA 4.1, Molecular Simulations), and a single round 20 of simulated annealing refinement in X-PLOR [Brunger, A. T., "X-PLOR: A System for X-Ray Crystallography and NMR", New Haven, Connecticut: Department of Molecular Biophysics and Biochemistry, Yale University (1993)] brought the R-factor to 29% and free R value to 33% 25 [Brunger, A. T., "Free R Value: A Novel Statistical Quantity for Assessing the Accuracy of Crystal Structures", Nature, 355, pp. 472-475 (1992)]. remainder of the model was built and refined in several steps, by first extending the resolution to 2.5Å and 30 then adding well-ordered water molecules. Asfinal round of positional and individual temperature factor refinement brought the R-factor to 21.6% (free R value 26.1%) for 26,652 reflections between 6.0 and 2.5Å

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(F>1sF). The current model consisted of tNS3 residues 1055-1206 and NS4A residues 1678-1693 in complex A, and tNS3 residues 1028-1206 and NS4A residues 1678-1696 for complex B (polyprotein numbering, with 2 zinc atoms and 130 water molecules. A Ramachandran plot for the final model contained 91% of the residues in the most favored regions and 0% in disallowed or generously-allowed regions. The rms deviations from ideality were 0.007Å for bond lengths and 1.47° for bond angles.

While we have described a number of embodiments of this invention, it is apparent that our basic examples may be altered to provide other embodiments which utilize the products and processes of this invention. Therefore, it will be appreciated that the scope of this invention is to be defined by the appended claims rather than by the specific embodiments which have been represented by way of example.

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### CLAIMS

We claim:

- 1. A composition comprising a HCV NS3-like polypeptide complexed with a NS4A-like peptide.
  - 2. The composition according to claim 1, wherein the HCV NS3-like polypeptide is a NS3 protease domain polypeptide or a NS3 protease domain polypeptide.
    - 3. The composition according to claim 1, wherein the HCV NS3-like polypeptide is tNS3.
- 4. The composition according to any one of claims 1 to 3, wherein the NS4A-like peptide is H-KKGSVVIVGRIVLSGKPAIIPKK-OH.
- 5. A crystal comprising a HCV NS3-like polypeptide complexed with a NS4A-like peptide.
  - 6. The crystal according to claim 5, wherein the HCV NS3-like polypeptide is a NS3 protease domain polypeptide or a NS3 protease domain-like polypeptide.
  - 7. The crystal according to claim 5, wherein the HCV NS3-like polypeptide is tNS3.
- 8. The crystal according to any one of claims 1 to 3, wherein the NS4A-like peptide is H-KKGSVVIVGRIVLSGKPAIIPKK-OH.

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- 9. The crystal according to claim 5, additionally comprising an inhibitor of HVC NS3.
- 10. A machine-readable data storage medium,

  comprising a data storage material encoded with machine readable data, wherein the data is defined by the structure coordinates of a tNS3/sNS4A complex according to Figure 3, or a homologue of said complex, wherein said homologue comprises backbone atoms that have a root mean square deviation from the backbone atoms of the complex of not more than 1.5A
- 11. The machine-readable data storage medium, according to claim 10, wherein said molecule or molecular complex is defined by the set of structure coordinates for tNS3/sNS4A according to Figure 3, or a homologue of said molecule or molecular complex, said homologue having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å.
- comprising a data storage material encoded with a first set of machine readable data comprising a Fourier transform of at least a portion of the structural coordinates for tNS3/sNS4A according to Figure 3; which, when combined with a second set of machine readable data comprising an X-ray diffraction pattern of a molecule or molecular complex of unknown structure, using a machine programmed with instructions for using said first set of data and said second set of data, can determine at least a portion of the structure coordinates corresponding to the second set of machine

readable data, said first set of data and said second set of data.

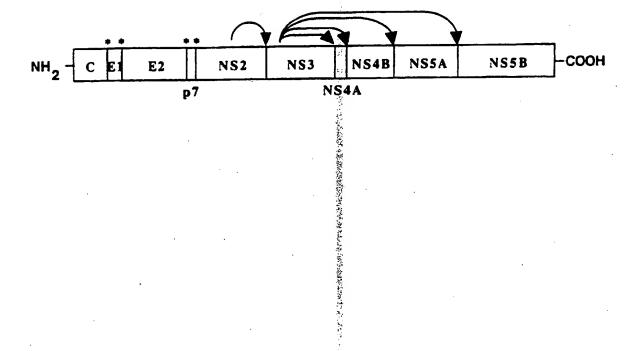
- 13. A method of obtaining structural information about a molecule or a molecular complex of unknown structure by using the structure coordinates set forth in Figure 3, comprising the steps of:
- a. generating X-ray diffraction data from said crystallized molecule or molecular complex;
- b. applying at least a portion of the structure coordinates set forth in Figure 3 to said X-ray diffraction pattern to generate a three-dimensional electron density map of at least a portion of the molecule or molecular complex.

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14. The method according to claim 13, wherein the molecule or molecular complex of unknown structure comprises a polypeptide selected from a NS3-like polypeptide in complex with a NS4A-like peptide.

1/60 **Fig. 1** 



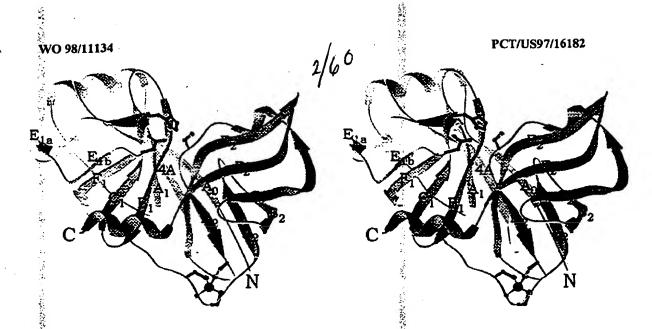


Figure 2

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### FIGURE 3

### tNS3 COORDINATES (Complex A)

		Atom						
		Type	Resid #	<u>X</u>	Y	<u>Z</u>	OCC	: <u>B</u>
ATOM	1	N	VAL 1055	94.186	42. <del>3</del> 91	51. <b>8</b> 19	1.00	32.85
ATOM	2	CA	VAL 1055	92.743	42.519	51.462	1.00	30.82
ATOM	3	CB	VAL 1055	92.435	41.883	50.083	1.00	30.41
ATOM	4	CG1	VAL 1055	90.953	41.986	49.767	1.00	31.38
ATOM	5	CG2	VAL 1055	93.232	42.576	48.999	1.00	30.52
ATOM	6	C	VAL § 1055	91.928	41.817	52.527	1.00	30.32
ATOM	7	ŏ	VAL 1055	92.271	40.715	52.954	1.00	31.39
ATOM	8	Ň	GLU / 1056	90.869	42.481	52.975	1.00	30.38
ATOM	9	CA	GLU 4 1056	89.985	41.933	53.994	1.00	28.82
ATOM	10	СВ	GLU 1056 GLU 1056	89.909	42.877	55.191	1.00	28.56
<b>ATOM</b>	11	CG	GLU 🖟 1056	91.249	43.090	55.856	1.00	33.65
ATOM	12	CD	GLU 🖟 1056	91.183	44.066	57.007	1.00	37.88
ATOM	13	OE1	GLU 🖟 1056	91.610	43.695	58.120	1.00	40.68
ATOM	14	OE2	GLU 🐐 1056	90.713	45.204	56.796	1.00	40.04
ATOM	15	С	GLU 🖁 1056	88.590	41.675	53.442	1.00	26.54
ATOM	16	0	GLU 1056	88.102	42.417	52.591	1.00	26.63
ATOM	17	N	GLY 1057	87.970	40.602	53.914	1.00	24.45
ATOM	18	CA	GLY 🐧 1057	86.633	40.261	53.478	1.00	22.13
MOTA	19	C	GLY 1057	85.614	40.570	54.553	1.00	21.95
ATOM	20	0	GLY (1057	85.918	40.510	55.742	1.00	23.57
ATOM	21	N	GLU 1058	84.406	40.924	54.140	1.00	20.53
MOTA	22	CA	GLU 1058	83.352	41.236	55.084	1.00	18.51
ATOM	23	CB	GLU 1058	82.408	42.295	54.514	1.00	18.38
ATOM	24	CG	GLU 1058 GLU 1058	83.060	43.597	54.096	1.00	18.99 23.27
ATOM	25	CD		83.531	43.593	52.650	1.00 1.00	23.27
ATOM ATOM	26 27	OE1 OE2	GLU 1058 GLU 1058	83.746 83.701	42.504 44.686	52.083 52.067	1.00	26.97
ATOM	28	C	GLU 1058	82.5 <b>8</b> 0	39.954	55.338	1.00	19.61
ATOM	29	ŏ	GLU 1058	81.9 <b>88</b>	39.770	56.399	1.00	21.48
ATOM	30	N	VAL 1059	82.604	39.062	54.354	1.00	18.78
ATOM	31	CA	VAL 1059	81.899	37.789	54.428	1.00	18.22
ATOM	32	CB	VAL 1059	80.990	37.583	53.170	1.00	16.33
ATOM	33	CG1	VAL 1059	80.286	36.249	53.225	1.00	13.76
ATOM	34	CG2	VAL 1059	79.977	38.702	53.048	1.00	12.68
ATOM	35	C	VAL 1059	82.903	36.644	54.491	1.00	20.89
ATOM	36	Ö	VAL 1059	83.826	36.571	53.676	1.00	20.81
<b>ATOM</b>	37	N	GLN § 1060	82.737	35.758	55.465	1.00	21.48
<b>ATOM</b>	38	CA	GLN 1060	83.629	34.620	55.582	1.00	22.32
<b>ATOM</b>	39	CB	GLN 1060	84.405	34.633	56.908	1.00	23.40
<b>ATOM</b>	40	CG	GLN 1060	83.662	35.176	58.104	1.00	24.97
<b>ATOM</b>	41	CD	GLN 1060	83.707	36.692	58.201	1.00	25.79
<b>ATOM</b>	42	OE1	GLN 🖟 1060	84.519	37.351	57.553	1.00	<b>27.09</b>
ATOM	43	NE2	GLN 🗼 1060	82.842	37.252	59.031	1.00	25.24
ATOM	44	С	GLN 1060	82.863	33.325	55.410	1.00	23.40
<b>ATOM</b>	45	0	GLN 🖟 1060	81.735	33.202	55.880	1.00	25.77

ATOM ATOM	46 47	N CA	ILE	1061 1061	83.457 82.882	32.399 31.086	54.663 54.390	1.00	23.80 23.08
ATOM	48	CB	ILE	1061	83.399	30.530	53.052	1.00	23.13
ATOM	49	CG2	ILE	1061	82.659	29.258	52.698	1.00	20.59
ATOM	50	CG1	ILE	1061	83.219	31.584	51.951	1.00	23.17
ATOM	51	CD1	ILE	1061,	83.949	31.275	50.692	1.00	21.52
ATOM	52	C	ILE	1061	83.335	30.173	55.517	1.00	24.42
ATOM	<b>5</b> 3	0	ILE	1061	84.498	29.766	55.574	1.00	26.06 25.24
ATOM	54 55	N	VAL	1062	82.404	29.850	56.404	1.00 1.00	25.24
ATOM ATOM	55 56	CA CB	VAL VAL	1062 1062	82.688 82.085	29.028 29.682	57.569 58.832	1.00	21.93
ATOM	57	CG1	VAL	1062	82.568	31.124	58.951	1.00	20.61
ATOM	58	CG2	VAL	1062	80.578	29.645	58.778	1.00	18.03
ATOM	<b>5</b> 9	C	VAL	1062	82.201	27.587	57.443	1.00	26.46
ATOM	<b>6</b> 0	Ö	VAL	1062	81.391	27.261	56.573	1.00	26.50
ATOM	61	N	SER	1063	82.685	26.730	58.332	1.00	28.27
ATOM	62	CA	SER	1063	82.312	25.326	58.316	1.00	29.40
ATOM	63	CB	SER	1063	83.246	24.539	57.389	1.00	29.43
ATOM	64	OG	SER	1063	83.164	25.013	56.054	1.00	33.51
ATOM	65	C	SER	1063	82.339	24.684	59.696	1.00	31.16
ATOM	66	Ŏ.	SER	1063	83.000	25.167	60.623	1.00	30.35
ATOM	67	N	THR	1064	81.593	23.593	59.811	1.00	33.89
<b>ATOM</b>	68	CA	THR	1064	81.497	22.790	61.023	1.00	33.81
ATOM	<b>6</b> 9	CB	THR	1064	80.091	22.855	61.651	1.00	31.40
<b>ATOM</b>	<b>7</b> 0	OG1	THR	1064	79.099	22.536	60.664	1.00	33.92
<b>ATOM</b>	71	CG2	THR	1064	79.825	24.230	62.216	1.00	29.94
<b>ATOM</b>	<b>72</b>	С	THR	1064	81.769	21.383	60.511	<b>1.00</b> .	35.92
ATOM	73	0	THR	1064	81.951	21.200	59.305	1.00	36.71
<b>ATOM</b>	74	N	ALA	1065	81.800	20.395	61.396	1.00	38.38
ATOM	<b>7</b> 5	CA	ALA	1065	82.060	19.022	60.975	1.00	40.41
ATOM	76	CB	ALA	1065	82.104	18.114	62.181	1.00	41.57
ATOM	<b>77</b>	Ç	ALA	1065	81.044	18.490	59.966	1.00	41.85
ATOM	<b>78</b>	0	ALA	1065	81.357	17.623	59.151	1.00	41.76
ATOM	79	N	THR	1066	79.827	19.016	60.025	1.00	43.16
ATOM	80	CA	THR	1066	78.758	18.559	59.148	1.00	45.82
ATOM	81	CB	THR	1066	77.582	18.022	60.003	1.00	48.55
ATOM	82	OG1	THR	1066	77.141	19.047	60.914	1.00	51.57
MOTA	83	CG2	THR	1066	78.009	16.795	60.791	1.00	51.00
ATOM	84	C	THR	1066	78.147	19.613	58.224	1.00	46.64
ATOM	<b>85</b>	0	THR	1066	77.374	19.265	57.323	1.00	48.12
ATOM	86 97	N	GLN	1067	78.466	20.887	58.431 57.636	1.00 1.00	45.58 43.33
MOTA	87 88	CA CB	GLN GLN	1067 1067	77.829	21.923 22.429	57.636 58.438	1.00	44.54
ATOM ATOM	89	CG	GLN	1067	76.635	23.244	57.682	1.00	48.92
ATOM	90	CD	GLN	1067	75.606 74.377	23.595	58.535	1.00	51.71
ATOM	91	OE1	GLN	1067	74.377 73.519	24.380	58.113	1.00	53.17
ATOM	92	NE2	GLN	1067	73.519 74.297	23.023	59.738	1.00	49.37
ATOM	93	C	GLN	1067	78.720	23.023	57.269	1.00	40.47
ATOM	94	Ö	GLN	1067	79.567	23.498	58.053	1.00	41.29
ATOM	95	N	THR	1068	78.523	23.612	56.063	1.00	37.11
ATOM	96	CA	THR	1068	79.261	24.767	55.574	1.00	30.70
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ATOM	97	СВ	THR	<b>1068</b>		80.113	24.436	54.331	1.00	29.76
ATOM	98	OG1	THR	1068		81.008	25.521	54.062	1.00	30.04
<b>ATOM</b>	99	CG2	THR	1068		79.241	24.184	53.113	1.00	30.99
<b>ATOM</b>	100	С	THR	ំ1068		78.236	25.843	55.234	1.00	28.68
<b>ATOM</b>	101	0	THR	1068		77.192	25.565	54.644	1.00	27.99
<b>ATOM</b>	102	N	PHE	1069		78.517	27.063	55.659	1.00	26.46
ATOM	103	CA	PHE	<b>1069</b>		77.631	28.186	55.420	1.00	23.03
<b>ATOM</b>	104	CB	PHE	1069	•	76.499	28.199	56.450	1.00	22.57
<b>ATOM</b>	105	CG	PHE	1069		76.955	27.964	57.854	1.00	22.39
<b>ATOM</b>	106	CD1	PHE	1069		77.011	29.014	58.759	1.00	22.57
<b>ATOM</b>	107	CD2	PHE	<u></u> 1069		77.351	26.699	58.271	1.00	22.33
<b>ATOM</b>	108	CE1	PHE	1069		77.458	28.808	60.057	1.00	23.82
<b>ATOM</b>	109	CE2	PHE	<b>§1069</b>		77.800	26.485	59.566	1.00	22.79
<b>ATOM</b>	110	CZ	PHE	§1069		77.855	27.543	60.461	1.00	23.30
<b>ATOM</b>	111	С	PHE	1069		78.456	29.472	55.447	1.00	<b>22.55</b>
<b>ATOM</b>	112	0	PHE	§1069		79.670	29.421	55.249	1.00	21.97
<b>ATOM</b>	113	Ν	LEU	1070		77.832	30.607	55.734	1.00	19.95
<b>ATOM</b>	114	CA	LEU	1070	•	78.562	31.866	55.734	1.00	19.27
<b>ATOM</b>	115	CB	LEU	§1070		78.091	32.748	54.571	1.00	19.20
<b>ATOM</b>	116	CG	LEU	1070		78.060	32.230	53.135	1.00	16.10
<b>ATOM</b>	117	CD1	LEU	<b>1070</b>		77.451	33.307	52.257	1.00	13.03
<b>ATOM</b>	118	CD2	LEU	1070		79.445	31.859	52.670	1.00	15.83
<b>ATOM</b>	119	С	LEU	1070		78.347	32.649	57.009	1.00	18.16
<b>ATOM</b>	120	0	LEU	<b>£1070</b>		77.443	32.345	57.781	1.00	20.67
<b>ATOM</b>	121	N	ALA	1071		79.186	33.661	57.210	1.00	16.24
<b>ATOM</b>	122	CA	ALA	1071		79.091	34.5 <b>6</b> 5	58.349	1.00	17.10
<b>ATOM</b>	123	CB	ALA	₹1071		80.142	34.249	59.377	1.00	19.06
<b>ATOM</b>	124	С	ALA	1071		79.340	35.935	57.750	1.00	18.14
<b>ATOM</b>	125	0	ALA	1071		79.958	36.030	56.693	1.00	19.55
<b>ATOM</b>	126	N	THR	1072		78.839	36.981	58.396	1.00	17.51 <sup>-</sup>
<b>ATOM</b>	127	CA	THR	1072		78.999	38.345	57.909	1.00	16.67
<b>ATOM</b>	128	CB	THR	1072		77.679	38.890	57.335	1.00	14.90
<b>ATOM</b>	129	OG1	THR	1072		77.249	38.048	56.269	1.00	19.26
<b>ATOM</b>	130	CG2	THR	1072		77.852	40.303	56.799	1.00	13.79
ATOM	131	С	THR	1072		79.410	39.262	59.049	1.00	19.92
ATOM	132	0	THR	1072		78.785	39.264	60.112	1.00	22.53
ATOM	133	N	CYS	1073		80.470	40.032	58.840	1.00	20.00
<b>ATOM</b>	134	CA	CYS	1073		80.916	40.960	59.856	1.00	19.38
ATOM	135	CB	CYS	1073		82.388	41.267	59.691	1.00	17.15
ATOM	136	SG	CYS	1073		83.433	39.961	60.265	1.00	21.59
ATOM	137	С	CYS	1073		80.144	42.240	59.705	1.00	20.61
ATOM	138	0	CYS	1073		80.125	42.821	58.623	1.00	21.53
ATOM	139	N ·	ILE	1074		79.470	42.654	60.770	1.00	23.02
MOTA	140	CA	ILE	1074		78.706	43.903	60.793	1.00	24.61
ATOM	141	CB	ILE	1074		77.189	43.676	60.592	1.00	24.97
<b>ATOM</b>	142	CG2	ILE	1074		76.426	44.967	60.844	1.00	27.22
<b>ATOM</b>	143	CG1	ILE	1074		76.904	43.174	59.178	1.00	23.86
<b>ATOM</b>	144	CD1	ILE	1074		75.491	42.685	58.985	1.00	25.93
<b>ATOM</b>	145	C	ILE	1074		78.943	44.491	62.176	1.00	26.19
<b>ATOM</b>	146	0	ILE	ॄ1074		78.833	43.790	63.185	1.00	28.47
ATOM	147	N	ASN	1075		79.320	45.760	62.222	1.00	26.56

ATOM 148	CA	ASN	1075	79.593	46.430	63.488	1.00	
ATOM 149	CB	ASN	1075	78.297		64.261	1.00	28.70
ATOM 150	CG	ASN	1075	77.415	**	63.592	1.00	30.77
ATOM 151	OD1	ASN	1075	77.829		62.639	1.00	33.91
ATOM 152	ND2	ASN	1075	76.192		64.094	1.00	30.24
ATOM 153	C	ASN	1075	80.599		64.368	1.00	28.13
ATOM 154	0	ASN	1075	80.388		65.569	1.00	27.91
ATOM 155	N	GLY	1076	81.687		63.760	1.00	28.00
ATOM 156 ATOM 157	CA C	GLY GLY	1076	82.723		64.502	1.00	27.37
ATOM 157 ATOM 158	0	GLY	1076 1076	82.411 83.264	••	64.970 65.567	1.00 1.00	29.01 28.27
ATOM 158	N	VAL	1076	81.205	2.0	64.678	1.00	29.0Ŝ
ATOM 160	CA	VAL	1077	80.801	1	65.084	1.00	27.37
ATOM 161	CB	VAL	1077	79.453		65.821	1.00	26.61
ATOM 162	CG1	VAL	1077	79.062	277	66.292	1.00	27.45
ATOM 163	CG2	VAL	1077	79.536	200	66.995	1.00	27.61
ATOM 164	C	VAL	1077	80.688	22	63.864	1.00	27.94
ATOM 165	0	VAL	1077	80.387		62.759	1.00	29.66
ATOM 166	N	CYS	1078	80.989	Ł	64.062	1.00	26.17
<b>ATOM 167</b>	CA	CYS	1078	80.910	38,114	63.011	1.00	23.77
ATOM 168	CB	CYS	1078	82.097	R.:	63.101	1.00	23.73
ATOM 169	SG	CYS	1078	82.221	* *	61.746	1.00	23.84
ATOM 170	С	CYS	1078	79.610		63.286	1.00	23.02
ATOM 171	0	CYS	1078	79.533		64.200	1.00	24.11
ATOM 172	N	TRP	1079	78.576		62.534	1.00	21.24
ATOM 173	CA	TRP	1079	77.260		62.698	1.00	19.55
ATOM 174	CB	TRP	1079	76.187		62.406	1.00	19.32
ATOM 175	CG	TRP	1079	76.340	٠,	63.178	1.00	21.82
ATOM 176 ATOM 177	CD2 CE2	TRP TRP	1079 1079	75.766 76.112	•	64.460 64.781	1.00 1.00	23.32 24.08
ATOM 177	CE3	TRP	1079	74.989		65.364	1.00	21.58
ATOM 179	CD1	TRP	1079	77.003		62.788	1.00	22.05
ATOM 180	NE1	TRP	1079	76.868		63.745	1.00	23.78
ATOM 181	CZ2	TRP	1079	75.703		65.967	1.00	22.89
ATOM 182	CZ3	TRP	1079	74.582		66.540	1.00	22.78
ATOM 183	CH2	TRP	1079	74.940		66.831	1.00	23.44
ATOM 184	С	TRP	1079	77.028		61.763	1.00	18.27
ATOM 185	0	TRP	1079	77.576	35.939	60.661	1.00	20.23
ATOM 186	N	THR	1080	76.196	35.041	62.200	1.00	17.65
ATOM 187	CA	THR	1080	75.813	33.895	61.391	1.00	18.57
ATOM 188	CB	THR	1080	76.917		61.319	1.00	18.31
ATOM 189	OG1	THR	1080	76.535		60.384	1.00	15.58
ATOM 190	CG2	THR	1080	77.164	*	62.666	1.00	16.32
ATOM 191	C	THR	1080	74.506	*	61.930	1.00	19.72
ATOM 192	0	THR	1080	73.939		62.894	1.00	20.69
ATOM 193	N	VAL	1081	74.023	4,	61.304	1.00	22.55
ATOM 194	CA	VAL	1081	72.767		61.700	1.00	23.39
ATOM 195	CB	VAL	1081	72.019	7.7	60.473	1.00	21.81
ATOM 196	CG1	VAL	1081	71.432		59.648 50.617	1.00	19.45
ATOM 197 ATOM 198	CG2 C	VAL VAL	1081 1081	72.972	>	59.617	1.00 1.00	22.36 25.42
€	J	VAL	1001	72 942	3	62.729	1.00	40,4 <u>4</u>
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ATOM	199	0	VAL	1081	73.693	29.565	62.510	1.00	27.35
ATOM	200	N	TYR	1082	72.191	30.632	63.823	1.00	27.30
<b>ATOM</b>	201	CA	TYR	1082	72.211	29.644	64.902	1.00	28.71
ATOM	202	CB	TYR	1082	71.139	29.964	65.946	1.00	29.28
ATOM	203	CG	TYR	1082	71.171	29.063	67.161	1.00	29.31
ATOM	204	CD1	TYR	1082	70.439	27.883	67.191	1.00	32.22
ATOM	205	CE1	TYR	1082	70.458	27.048	68.308	1.00	35.00
ATOM	206	CD2	TYR	1082	71.928	29.395	68.281	1.00	29.57
ATOM	207	CE2	TYR	1082	71.957	28.570	69.406	1.00	32.16
ATOM	208	CZ	TYR	1082	71.216	27.395	69.415	1.00	34.16
ATOM	209	ОН	TYR	1082	71.214	26.568	70.524	1.00	34.78
ATOM	210	C	TYR	1082	72.005	28.218	64.398	1.00	28.97
ATOM	211	ŏ	TYR	1082	72.591	27.286	64.945	1.00	31.64
ATOM	212	N	HIS	1083	71.200	28.046	63.350	1.00	28.60
ATOM	213	CA	HIS	1083	70.943	26.717	62.800	1.00	29.08
ATOM	214	CB	HIS	1083	69.730	26.725	61.858	1.00	28.98
ATOM	215	CG	HIS	1083	69.984	27.333	60.508	1.00	27.71
ATOM	216	CD2	HIS	1083	70.696	26.886	59.443	1.00	27.80
ATOM	217	ND1	HIS	1083	69.392	28.509	60.106	1.00	26.55
ATOM	218	CE1	HIS	1:083	69.724	28.766	58.852	1.00	28.23
ATOM	219	NE2	HIS	1083	70.514	27.795	58.427	1.00	28.18
		C	HIS	1083	70.51 <del>4</del> 72.153	26.103	62.102	1.00	31.61
ATOM	220		HIS	1083	72.155 72.056	25.016	61.516	1.00	32.83
MOTA	221	0	GLY	1084		26.826	62.110	1.00	31.35
ATOM	222	N ·			73.270		61.486	1.00	30.49
ATOM	223	CA	GLY	1084	74.479	26.329	62.501	1.00	30.79
ATOM	224	C	GLY	1084	75.597	26.297	62.586	1.00	31.01
ATOM	225	0	GLY	1084	76.345	25.322		1.00	29.67
ATOM	226	N	ALA	1085	75.710	27.364	63.281	1.00	29.18
MOTA	227	CA	ALA	1085	76.756	27.463	64.291	1.00	27.13
MOTA	228	СВ	ALA	1085	77.102	28.919	64.538		30.86
ATOM	229	C	ALA	1085	76.385	26.797	65.608	1.00	32.83
ATOM	230	0	ALA	1085	77.229	26.191	66.266	1.00	
MOTA	231	N	GLY	1086	75.120	26.912	65.996	1.00	31.95
ATOM	232	CA	GLY	1086	74.691	26.347	67.259	1.00	30.00
ATOM	233	C	GLY	1086	75.280	27.240	68.329	1.00	30.52
ATOM	234	0	GLY	1086	75.093	28.456	68.288	1.00	31.56
ATOM	235	N	THR	1087	76.004	26.659	69.277	1.00	29.74
ATOM	236	CA	THR	1087	76.632	27.445	70.334	1.00	29.99
ATOM	237	CB	THR	1087	76.202	26.964	71.722	1.00	31.53
ATOM	238	OG1	THR	1087	76.282	25.531	71.779	1.00	33.33
ATOM	239	CG2	THR	1087	74.792	27.428	72.043	1.00	32.33
MOTA	240	C	THR	1087	78.138	27.277	70.235	1.00	29.06
ATOM	241	0	THR	1087	78.863	27.526	71.195	1.00	29.33
ATOM	242	N	ARG	1088	78.602	26.848	69.068	1.00	27.32
ATOM	243	CA	ARG	1088	80.013	26.607	68.849	1.00	25.61
ATOM	244	CB	ARG	1088	80.232	25.970	67.484	1.00	24.43
MOTA	245	CG	ARG	1088	79.894	24.510	67.450	1.00	24.44
ATOM	246	CD	ARG	1088	79.804	24.007	66.034	1.00	26.01
MOTA	247	NE	ARG	1088	78.457	23.542	65.721	1.00	25,14
ATOM		CZ	ARG	1088	78.181	22.324	65.274	1.00	27:41
<b>ATOM</b>	249	NH1	ARG	1.088	79.162	21.449	65.099	1.00	29.46

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ATOM 250	NH2	ARG	1088	76.937	21.999	64.942	1.00	27.99
ATOM 251	С	ARG	1088	80.880	27.837	68.974	1.00	26.13
<b>ATOM 252</b>	0	ARG	1088	80.407	28.963	68.843	1.00	27.98
ATOM 253	N	THR	1089	82.145	27.598	69.294	1.00	25.72
<b>ATOM 254</b>	CA	THR	1089	83.135	28.648	69.412	1.00	24.74
<b>ATOM 255</b>	CB	THR	1089	84.295	28.219	70.320	1.00	21.05
<b>ATOM 256</b>	OG1	THR	1089	84.682	26.880	69.991	1.00	21.01
<b>ATOM 257</b>	CG2	THR	1089	83.908	28.296	71.765	1.00	21.52
<b>ATOM 258</b>	C	THR	1089	83.699	28.785	68.012	1.00	25.12
ATOM 259	0	THR	1089	83.616	27.844	67.218	1.00	27.12
ATOM 260	N	ILE	1090	84.252	29.944	67.694	1.00	23.10
ATOM 261	CA	ILE	1090	84.854	30.135	66.392	1.00	22.50
ATOM 262	CB	ILE	1090	84.540	31.546	65.840	1.00	21.33
ATOM 263	CG2	ILE	1090	85.167	32.617	66.699	1.00	20.09
ATOM 264	CG1	ILE	1090	84.962	31.653	64.378	1.00	20.03
ATO∰ 265	CD1	ILE	1090	84.429	32.877	63.701	1.00	19.81
ATOM 266	<b>C</b> .	ILE	1090	86.358	29.896	66.581	1.00	24.31
ATOM 267	0	ILE	1090	86.924	30.289	67.611	1.00	25.80
ATOM 268	N	ALA	1091	86.981	29.177	65.649	1.00	23.50
ATOM 269	CA	ALA	1091	88.412	28.883	65.728	1.00	23.75
ATOM 270	CB	ALA	1091	88.797	27.871	64.670	1.00	22.92
ATOM 271	C	ALA	1091	89.267	30.147	65.589	1.00	25.79
ATOM 272	Ο,	ALA	1091	88.962	31.039	64.789	1.00	27.65
ATOM 273	N	SER	1092	90.354	30.201	66.349	1.00	25.22
ATOM 274	CA	SER	1092	91.271	31.335	66.345	1.00	24.64
ATOM 275	CB	SER	1092	90.898	32.264	67.501	1.00	24.34
ATOM 276	og	SER	1092	91.981	33.043	67.962 66.519	1.00	27.32 26.18
ATOM 277	C	SER	1092	92.686	30.778	66.518 67.129	1.00 1.00	28.18
ATOM 278	0	SER	1092	92.859	29.722 31.449	65.953	1.00	26.18
ATOM 279	N	PRO	1093 1093	93.712	31. <del>44</del> 9 32.638	65.084	1.00	27.37
ATOM 280	CD	PRO PRO	1093	93.667 95.094	30.955	66.092	1.00	27.58
ATOM 281 ATOM 282	CA CB	PRO	1093	95.888	31.857	65.133	1.00	26.90
ATOM 282	CG	PRO	1093	95.105	33.123	65.128	1.00	28.05
ATOM 284	C	PRO	1093	95.618	31.011	67.533	1.00	27.01
ATOM 285	ŏ	PRO	1093	96.778	30.729	67.803	1.00	25.78
ATOM 286	Ň	LYS	1094	94.742	31.398	68.447	1.00	28.06
ATOM 287	CA	LYS	1094	95.060	31.469	69.858	1.00	29.03
ATOM 288	CB	LYS	1094	94.935	32.901	70.355	1.00	27.19
ATOM 289	CG	LYS	1094	96.041	33.832	69.933	1.00	30.62
ATOM 290	CD	LYS	1094	95.763	35.182	70.569	1.00	34.13
ATOM 291	CE	LYS	1094	96.891	36.178	70.407	1.00	36.40
ATOM 292	NZ	LYS	1094	96.526	37.422	71.149	1.00	40.35
ATOM 293	C	LYS	1094	94.058	30.599	70.617	1.00	29.44
ATOM 294	ŏ	LYS	1094	93.960	30.680	71.842	1.00	30.88
ATOM 295	Ň	GLY	1095	93.298	29.787	69.889	1.00	30.20
ATOM 296	CA	GLY	1095	92.310	28.930	70.523	1.00	30.19
ATOM 297	C	GLY	1095	90.878	29.342	70.217	1.00	29.06
ATOM 298	Ō	GLY	1095	90.654	30.374	69.580	1.00	28.17
ATOM 299	N	PRO	1096	89.882	28.553	70.660	1.00	28.19
ATOM 300	CD	PRO	1096	90.042	27.313	71.439	1.00	26.15
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ATOM 301	CA	PRO	1096	88.4	61 28.827	70.433	1.00	27:36
ATOM 302	CB	PRO	1096	87.7	80 27.625	71.083	1.00	27.13
ATOM 303	CG	PRO	1096	88.7	35 27.236	72.166	1.00	24.95
ATOM 304	С	PRO	1096	87.9	77 30.124	71.047	1.00	26.27
ATOM 305	Ō	PRO	1096	88.3			1.00	27.96
ATOM 306	N	VAL	1097	87.1			1.00	24.47
ATOM 307	CA	VAL	1097	86.6			1.00	24.49
ATOM 308	CB	VAL	1097	86.8			1.00	22.40
ATOM 309	CG1	VAL	1097	86.5			1.00	20.17
ATOM 310	CG2	VAL	1097	88.3			1.00	20.81
ATOM 311	C	VAL	1097	85.1			1.00	25.90
ATOM 311	ŏ	VAL	1097	84.4		70.065	1.00	27.10
ATOM 312	N	ILE	1098	84.5			1.00	27.33
ATOM 313	CA	ILE	1098	83.1			1.00	28.53
ATOM 314	CB	ILE	1098	82.9			1.00	28.58
	CG2	ILE	1098	83.8	1	74.360	1.00	27.94
ATOM 316		ILE	1098	83.1			1.00	30.72
ATOM 317 ATOM 318	CG1 CD1	ILE	1098	82.5			1.00	34.23
			3.e-				1.00	29.52
ATOM 319	C	ILE ILE	1098	82.2		71.765	1.00	29.80
ATOM 320	0		1098	82.6			1.00	29.40
ATOM 321	N	GLN	1099	81.0				28.62
ATOM 322	CA	GLN	1099	80.0			1.00	
ATOM 323	CB	GLN	1099	78.7			1.00	26.55
ATOM 324	CG	GLN	1099	78.8			1.00	23.75
ATOM 325	CD	GLN	1099	77.5			1.00	23.24
ATOM 326	OE1	GLN	1099	76.4			1.00	24.67
ATOM 327	NE2	GLN	1099	77.5			1.00	25.50
ATOM 328	C	GLN	1099	79.8			1.00	29.81
ATOM 329	0	GLN	1099	79.7			1.00	30.77
ATOM 330	N	MET	1100	79.8		71.293	1.00	30.86
ATOM 331	CA	MET	1100	79.5			1.00	31.65
ATOM 332	CB	MET	1100	79.9			1.00	33.79
ATOM 333	CG	MET	1100	81.4		71.236	1.00	36.58
ATOM 334	SD	MET	1100	81.6		70.061	1.00	40.15
ATOM 335	CE	MET	1100	81.4		71.118	1.00	41.86
ATOM 336	C	MET	1100	78.0		72.266	1.00	32.12
ATOM 337	0	MET	1100	77.5		73.266	1.00	31.59
ATOM 338	N	TYR	1101	77.3		71.281	1.00	32.79
ATOM 339	CA	TYR	1101	75.8		71.320	1.00	32.46
ATOM 340	CB	TYR	1101	75.2		70.446	1.00	31.02
ATOM 341	CG	TYR	1101	75.9		70.636	1.00	31.88
ATOM 342	CD1	TYR	1101	76.9		69.792	1.00	34.30
ATOM 343	CE1	TYR	1101	77.5	91 41.018	69.973	1.00	33.36
ATOM 344	CD2	TYR	1101	75.5	40.224	71.667	1.00	30.84
ATOM 345	CE2	TYR	1101	76.10	32 41.446	71.857	1.00	31.48
<b>ATOM 346</b>	CZ	TYR	11,01	77.18	36 41.833	71.008	1.00	34.27
ATOM 347	ОН	TYR	1101	77.82		71.205	1.00	40.40
ATOM 348	С	TYR	1101	75.36		70.802	1.00	33.51
ATOM 349	0	TYR	1101	75.82		69.852	1.00	32.08
ATOM 350	N	THR	1102	74.24		71.449	1.00	35.21
ATOM 351	CA	THR	1102	73.5		71.063	1.00	36.92

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ATOM: 352	CB	THR	1102	73.904	32.722	71.996	1.00	35.96
ATOM 353	OG1	THR	1102	75. <b>3</b> 23	32.600	72.131	1.00	38.23
ATOM: 354	CG2	THR	1102	73.356	31.429	71.426	1.00	37.30
ATOM 355	C	THR	1102	72.102	34.232	71.220	1.00	39.19
ATOM: 356	Õ	THR	1102	71.663	34.661	72.292	1.00	39.17
ATOM: 357	Ň	ASN	1103	71.351	34.079	70.140	1.00	42.34
ATOM: 358	CA	ASN	1103	69.932	34.395	70.139	1.00	45.00
ATOM: 359	CB	ASN	1103	69.708	35.765	69.491	1.00	47.82
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ATOM 360	CG	ASN	1103	68.276	36.248	69.622	1.00	50.28
ATOM 361	OD1	ASN	1103	67.325	35.471	69.499	1.00	50.88
ATOM 362	ND2	ASN	1103	68.114	37.536	69.889	1.00	51.98
ATOM: 363	C	ASN	1103	69.198	33.315	69.356	1.00	46.48
ATOM: 364	0	ASN	1103	68.956	33.457	68.157	1.00	47.79
ATOM 365	N	VAL	1104	68.862	32.227	70.038	1.00	47.60
ATOM 366	CA	VAL	1104	68.170	31.115	69.407	1.00	48.19
ATOM: 367	CB	VAL	1104	67.859	30.009	70.423	1.00	48.12
ATOM: 368	CG1	VAL	1104	67.298	28.787	69.713	1.00	48.17
ATOM: 369	CG2	VAL	1104	69.120	29.646	71.196	1.00	48.35
ATOM: 370	С	VAL	1104	66.882	31.549	68.71,1	1.00	49.41
ATOM: 371	0	VAL	1104	66.608	31.095	67.602	1.00	49.88
ATOM: 372	N	ASP	1105	66.115	32.437	69.343	1.00	50.15
ATOM: 373	CA	ASP	1105	64.856	32.921	68.770	1.00	51.06
ATOM 374	CB	ASP	1105	64.190	33.946	69.697	1.00	54.26
ATOM: 375	CG	ASP	1105	63.123	33.329	70.588	1.00	57.62
ATOM: 376	OD1	ASP	1105	62.581	34.062	71.446	1.00	59.65
ATOM: 377	OD2	ASP	1105	62.819	32.125	70.428	1.00	59.74
ATOM: 378	C	ASP	1105	65.023	33.537	67.394	1.00	50.07
ATOM 379	ŏ	ASP	1105	64.264	33.238	66.467	1.00	52.01
ATOM 380	N	GLN	1106	66.022	34.397	67.262	1.00	47.71
ATOM: 381	CA	GLN	1106	66.276	35.061	65.997	1.00	45.61
ATOM 381	CB	GLN	1106			66.252	1.00	47.45
				66.844	36.452			
ATOM 383	CG	GLN	1106	65.850	37.347	66.976	1.00	52.29
ATOM 384	CD	GLN	1106	66.365	38.750	67.222	1.00	54.66
ATOM 385	OE1	GLN	1106	67.565	38.964	67.405	1.00	56.39
ATOM 386	NE2	GLN	1106	65.455	39.719	67.233	1.00	54.76
ATOM 387	C	GLN	1106	67.161	34.281	65.034	1.00	43:29
ATOM 388	0	GLN	1106	67.370	34.715	63.904	1.00	44.19
ATOM 389	N	ASP	1107	67.629	33.110	65.458	1.00	40.90
ATOM 390	CA	ASP	1107	68.503	32.279	64.630	1.00	39.02
ATOM 391	CB	ASP	1107	67.818	31.993	63.288	1.00	36.53
ATOM: 392	CG	ASP	1107	68.386	30.779	62.580	1.00	38.24
ATOM 393	OD1	ASP	1107	69.035	29.937	63.233	1.00	39.97
ATOM: 394	OD2	ASP	1107	68.156	30.655	61.363	1.00	39.42
ATOM : 395	С	ASP	1107	69.813	33.045	64.407	1.00	38.47
ATOM 396	0	ASP	1107	70.500	32.848	63.406	1.00	38.85
ATOM 397	N	LEU	1108	70.192	33.845	65.400	1.00	37.86
ATOM 398	CA	LEU	1108	71.369	34.702	65.316	1.00	37.42
ATOM: 399	CB	LEU	1108	70.901	36.155	65.431	1.00	35.72
ATOM \$ 400	CG	LEU	1108	71.902	37.299	65.315	1.00	33.41
ATOM 401	CD1	LEU	1108	72.538	37.304	63.944	1.00	33.86
ATOM: 401	CD2	LEU	1108	71.163	38.594	65.539	1.00	35.77
n.	UUZ	LLU	. 1100	7 (.700	*	<del>0</del> 0.003	1.00	55.77
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ATOM: 403	С	LEU	1108	72.445	34.471	66.366	1.00	37.37
ATOM 404	0	LEU	1108	72.145	34.391	67.558	1.00	38.07
ATOM: 405	Ν	VAL	1109	73.698	34.388	65.924	1.00	35.09
ATOM: 406	CA	VAL	1109	74.830	34.228	66.838	1.00	33.17
ATOM 407	CB	VAL	1109	75.296	32.744	67.025	1.00	32.32
ATOM: 408	CG1	VAL	1109	74.117	31.841	67.272	1.00	32.33
ATOM 409	CG2	VAL	1109	76.119	32.264	65.860	1.00	31.84
ATOM: 410	C	VAL	1109	75.972	35.070	66.296	1.00	31.38
ATOM: 411	0	VAL	1109	76.080	35.272	65.087	1.00	32.93
ATOM 412	N	GLY	1110	76.815	35.570	67.183	1.00	29.70
ATOM 413	CA	GLY	1110	77.917	36.394	66.743	1.00	26.58
ATOM 414	С	GLY	1110	79.129	36.273	67.627	1.00	25.55
ATOM 415	0	GLY	1110	79.008	36.097	68.840	1.00	25.57
ATOM 416	N	TRP	1111	80.300	36.317	67.004	1.00	24.66
ATOM 417	CA	TRP	1111	81.574	36.241	67.713	1.00	23.97
ATOM 418	CB	TRP	1111	82.415	35.077	67.186	1.00	22.57
ATOM: 419	CG	TRP	1111	81.754	<b>3</b> 3.720	67.136	1.00	22.78
ATOM: 420	CD2	TRP	1111	81.163	33.091	65.987	1.00	20.85
ATOM 421	CE2	TRP	1111	80.824	31.772	66.360	1.00	19.39
ATOM 422	CE3	TRP	1111	80.906	33.510	64.674	1.00	18.90
ATOM: 423	CD1	TRP	1111	81.725	32.785	68.135	1.00	21.78
ATOM: 424	NE1	TRP	1111	81.175	31.614	67.675	1.00	21.65
ATOM: 425	CZ2	TRP	1111	80.240	30.870	65.474	1.00	19.81
ATOM 426	CZ3	TRP	1111	80.324	32.613	63.790	1.00	18.79
ATOM 427	CH2	TRP	1111	80.001	31.306	64.193	1.00	20.56
ATOM 428	С	TRP	1111	82.298	37.532	67.355	1.00	25.16
ATOM 429	0	TRP	1111	81.788	38.321	66.563	1.00	25.20
ATOM 430	N	PRO	1112	83.451	37.813	67.989	1.00	25.84
ATOM 431	CD	PRO	1112	84.090	37.167	69.149	1.00	25.27
ATOM 432	CA	PRO	1112	84.159	39.048	67.627	1.00	24.42
ATOM 433	CB	PRO	1112	85.322	39.063	68.611	1.00	23.55
ATOM 434	CG	PRO	1112	84.768	38.329	69.801	1.00	23.65
ATOM 435	C	PRO	1112	84.666	38.826	66.194	1.00	25.76
ATOM: 436	0	PRO	1112	84.988	37.693	65.829	1.00	27.02
ATOM 437	N	ALA	1113	84.697	39.863	65.366		23.75
ATOM 438	CA	ALA	1113	85.159	39.686	63.995	1.00	22.81
ATOM 439	СВ	ALA	1113	85.051	40.980	63.239	1.00	25.86
ATOM 440	C	ALA	1113	86.592	39.158	63.959	1.00	23.10
ATOM 441	0	ALA	1113	87.491	39.730	64.567	1.00	25.15
ATOM 442	N ·	PRO	1114	86.826	38.071	63.212	1.00	23.57
ATOM 443	CD	PRO	1114	85.827	37.384	62.375	1.00	24.85
ATOM 444	CA	PRO	1114	88.135	37.433	63.074	1.00	24.09
ATOM 445	· CB	PRO	1114	87.790	36.144	62.340	1.00	23.05
ATOM: 446	CG	PRO	1114	86.691	36.587	61.430	1.00	23.55
ATOM 447	C	PRO	1114	89.160	38.250	62.296	1.00	27.35
ATOM: 448	0	PRO	1114	88.904	39.390	61.896	1.00	28.70
ATOM: 449	N	GLN	1115	90.324	37.654	62.078	1.00	28.98
ATOM: 450	CA	GLN	1115	91.380	38.312	61.331	1.00	32.07
ATOM 451	CB	GLN	1115	92.747	37.751	61.726	1.00	35.02
ATOM: 452	CG	GLN	1115	93.188	38.161	63.107	1.00	40.55
ATOM: 453	CD	GLN	1115	94 606	37.721	63.422	1.00	43.24

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これがあり、これのでは、大きの情報ので、の情になるのはないなるないない。

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こと、これにからいては、これのは後の本地の最大な大型の変化を変化をある。 田本の意味を表れているいという

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ATOM	454	OE1	GLN	1115	-2	94.851	36.571	63.793	1.00	41.11
ATOM	455	NE2	GLN	1115	,	95.547	38.649	63.308	1.00	45.52
ATOM	456	С	GLN	1115		91.168	38.171	59.821	1.00	31.93
ATOM	457	Ö	GLN	1115		90.705	37.137	59.329	1.00	30.69
ATOM	458	Ň	GLY	1116		91.512	39.225	59.093	1.00	31.14
ATOM	459	CA	GLY	1116		91.354	39.206	57.653	1.00	29.19
			GLY		÷		39.686		1.00	27.79
ATOM	460	C		1116	À	89.973		57.271		
MOTA	461	0	GLY	1116		89.578	39.579	56.109	1.00	28.10
ATOM	462	N	SER	1117	¥: (	89.249	40.247	58.237	1.00	25.03
ATOM	463	CA	SER	1117	5	87.909	40.729	57.973	1.00	24.84
ATOM	464	CB	SER	1117	εĵ	86.904	40.042	58.899	1.00	23.52
ATOM	465	OG	SER	1117	<u>"j</u>	86.986	40.560	60.214	1.00	21.42
ATOM	466	С	SER	1117	7	87.800	42.226	58.161	1.00	25.97
ATOM	467	0	SER	1117	24	88.671	42.846	58.768	1.00	27.89
ATOM	468	N	ARG	1118	î	86.742	42.796	57.591	1.00	26.62
<b>ATOM</b>	469	CA	ARG	1118	1000	86.416	44.208	57.719	1.00	25.45
<b>ATOM</b>	470	CB	ARG	1118	F. 4	86.940	45.048	56.545	1.00	28.49
<b>ATOM</b>	471	CG	ARG	1118	謹	86.095	45.116	55.292	1.00	32.87
<b>ATOM</b>	472	CD	ARG	1118	51.2°	86.240	46.504	54.632	1.00	40.52
<b>ATOM</b>	473	NE	ARG	1118	র্জ জ	85.263	47.482	55.135	1.00	46.91
<b>ATOM</b>	474	CZ	ARG	1118	E.	84.084	47.729	54.558	1.00	48.20
ATOM	475	NH1	ARG	1118	19年2年,1990年代的首都開展及其實際的基礎的基礎的基礎的基礎的對於	83.741	47.085	53.444	1.00	49.22
ATOM	476	NH2	ARG	1118		83.217	48.567	55.114	1.00	50.55
ATOM		C	ARG	1118	Ŋ.	84.894	44.224	57.812	1.00	24.87
ATOM	478	ŏ	ARG	1118	٠,	84.224	43.400	57.192	1.00	23.66
ATOM	479	N	SER	1119	• • •	84.354	45.088	58.659	1.00	24.12
ATOM	480	CA	SER	1119	•	82.917	45.142	58.848	1.00	21.38
ATOM	481	CB	SER	1119		82.566	45.698	60.221	1.00	19.53
ATOM	482	OG	SER	1119		82.806	44.732	61.235	1.00	18.13
ATOM	483	C	SER	1119	* .	82.134	45.881	57.789	1.00	22.88
	463 484		SER	1119		82.661	46.738	57.769 57.076	1.00	22.56
ATOM ATOM		0 N							1.00	23.25
	485		LEU	1120		80.872 79.915	45.486 46.057	57.682 56.759		24.37
ATOM	486	CA	LEU	1120			46.057	56.758	1.00	
ATOM	487	CB	LEU	1120	.:	78.950	44.979	56.290	1.00	23.76
ATOM	488	CG	LEU	1120		78.911	44.542	54.840	1.00	23.49
ATOM	489	CD1	LEU	1120		77.753	43.571	54.701	1.00	21.66
ATOM	490	CD2	LEU	1120		78.726	45.752	53.934	1.00	22.71
ATOM		C	LEU	1120		79.107	47.107	57.510	1.00	27.32
ATOM	492	0	LEU	1120		78.891	46.994	58.725	1.00	28.09
ATOM		N	THR	1121		78.618	48.096	56.771	1.00	30.14
ATOM	494	CA	THR	1121		77.821	49.176	57.334	1.00	29.30
ATOM	495	CB	THR	1121		78.065	50.474	56.574	1.00	29.90
<b>ATOM</b>	496	OG1	THR	1121	). 1	79.457	50.575	56.236	1.00	32.57
MOTA	497	CG2	THR	1121		77.650	51.656	57.415	1.00	28.80
<b>ATOM</b>	498	С	THR	1121	*	76.361	48.835	57.150	1.00	30.05
<b>ATOM</b>	499	0	THR	1121	ì	75.955	48.396	56.075	1.00	32.34
ATOM	500	N	PRO	1122	-3	75.546	49.021	58.190	1.00	29.89
<b>ATOM</b>	501	CD	PRO	1122	17	75.910	49.352	59.571	1.00	29.08
ATOM	502	CA	PRO	1122	e.	74.118	48.717	58.088	1.00	29.25
ATOM	503	CB	PRO	1122	र १८५४ व्यवस्था क्षीत्र र १ तक्षा स्था		48.907	59.517	1.00	28.58
ATOM	504	CG	PRO	1122	Ø.	74.856	48.613	60.323	1.00	30.38
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		£1						3.5		
ATC	MC.	505	С	PRO	1122	73.427	49.703	57.145	1.00	30.47
ATC	M	506 🐍	0	PRO	1122	73.874	50.839	56.986	1.00	32.91
ATC	MC	507 ੂੰ	N	CYS	1123	72.346	49.271	56.511	1.00	30.63
ATC	MC	508 🖫	CA	CYS	1123	71.621	50.136	55.596	1.00	30.60
ATC	MC	509	CB	CYS	1123	70.614	49.332	54.778	1.00	29.72
ATC	MC	510 🐈	SG	CYS	1123	69.790	50.297	53.488	1.00	25.00
ATC	) MC	511 🐌	C	CYS	1123	70.906	51.235	56.384	1.00	32.65
ATC	MC	512 🎚	0	CYS	1123	70.541	51.047	57.546	1.00	31.99
ATC	MC	513 🧗	N	THR	1124	70.744	52.393	55.755	1.00	34.65
ATC		514 🐇	CA	THR	1124	70.082	53.533	56.377	1.00	36.02
ATC		515 🕺	CB	THR	1124	71.118	54.557	56.908	1.00	36.13
ATC		516 🖟	OG1	THR	1124	71.877	55.082	55.810	1.00	36.33
ATC	) MC	517 🖁	CG2	THR	1124	72.074	53.903	57.908	1.00	34.16
ATC	MC!	518 🐉	C	THR	1124	69.208	54.236	55.337	1.00	37.69
ATC		519 🐓	0	THR	1124	68.718	55.341	55.576	1.00	40.17
ATC		520 📳	N	CYS	1125	69.040	53.609	54.174	1.00	37.56
ATC		521 🐉	CA	CYS	1125	68.243	54.202	53.110	1.00	35.40
ATC	) M	522 <del>*</del> 523 *	CB	CYS	1125	69.001	54.161	51.775	1.00	36.85
ATC			SG	CYS	1125	69.270	52.512	51.083	1.00	37.80
ATC		524	С	CYS	1125	66.884	53.548	52.958	1.00	34.49
ATC		525 🍹	0	CYS	1125	66.079	53.974	52.139	1.00	36.12
ATC		526 🎘	N	GLY	1126	66.637	52.496	53.725	1.00	34.32
ATC		527	CA	GLY	1126	65.358	51.813	53.650	1.00	33.36
ATC		528 💯	C	GLY	1126	64.953	51.332	52.271	1.00	32.12
ATC		529	0	GLY	1126	63.764	51.212	51.976	1.00	33.53
ATC		530 📳	N	SER	1127	65.931	51.066	51.417	1.00	30.17
ATC		531 💡	CA	SER	1127	65.636	50.584	50.082	1.00	30.11
ATC		532 🗦	CB	SER	1127	66.886	50.595	49.220	1.00	30.14
ATC		533 👸	OG		1127	66.565	50.233	47.893	1.00	31.03
ATC		534	C	SER	1127	65.090	49.165	50.154	1.00	31.51
ATC		535	0	SER	1127	65.455	48.392	51.042	1.00	33.06
ATC		536	N	SER	1128	64.232	48.823	49.201	1.00	32.01
ATC		537 ·	CA	SER	1128	63.625	47.501	49.140	1.00	32.06
ATC		538		SER	1128	62.125	47.633	48.916	1.00	33.84
ATC		539	OG	SER	1128	61.868	48.596	47.908	1.00	39.40
ATC		540	C	SER	1128	64.246	46.652	48.042	1.00	31.04
ATC		541 540	0	SER	1128	63.892	45.490	47.866	1.00	30.15
ATO		542 543 :	N CA	ASP ASP	1129	65.153	47.244	47.281	1.00	31.57
ATO		543 🚶 544 🗀		ASP	1129	65.838	46.521	46.221	1.00	30.82
ATO		545	CB CG	ASP	1129	66.170	47.478	45.071	1.00	32.94
ATO		546	OD1	ASP	1129	64.925	48.168	44.512	1.00	37.09
ATO		3	OD1	ASP	1129	64.087	47.488	43.876	1.00	38.85
ATO		, i			1129	64.769	49.388	44.731	1.00	40.93
			C O	ASP	1129	67.101	45.931	46.838	1.00	28.43
ATO		44'		ASP	1129	68.110	46.617	46.966	1.00	28.53
ATO ATO			N CA	LEU	1130	67.006	44.679	47,280	1.00	28.60
ATO			CA CB	LEU	1130 1130	68.114 67.570	43.965	47.922	1.00	27.20
ATO			CG	LEU	1130 ·	67.570	43.060	49:026	1.00	25.89
ATO				LEU	1130	66.449	43.614	49.910	1.00	27.61
ATO			CD1			66.230	42.644	51,049	1.00	30.67
W10	ivi 5	555 🚡	CD2	LEU	1130	66 <b>78</b> 1	44.991	50.455	1.00	26.86

ATOM 5	56 C	LEU	1130	Ē,.	68.955	43.122	46.955	1.00	27.30
ATOM 5	57 O	LEU	1130	,	68.524	42.812	45.847	1.00	29.26
	58 N	TYR	1131	- 8	70.155	42.740	47.386	1.00	26.38
	59 CA	TYR	1131		71.060	41.939	46.572	1.00	24.28
· =	60 CB	TYR	1131		72.118	42.830	45.922	1.00	22.21
	61 CG	TYR	1131	-	71.528	43.904	45.044	1.00	23.22
	62 CD1	TYR	1131		71.208	45.151	45.562	1.00	23.25
	63 CE1	TYR	1131	3)	70.601	46.129	44.772	1.00	25.23
		TYR	1131	ψ -{	71.234	43.654	43.707	1.00	24.48
	65 CE2	TYR	1131		70.626	44.627	42.905	1.00	24.25
	66 CZ	TYR	1131	4.4	70.311	45.860	43.447	1.00	25.18
	67 OH	TYR	1131	i i	69.697	46.824	42.673	1.00	26.26
	68 C	TYR	1131	je.	71.725	40.924	47.479	1.00	24.97
	69 O	TYR	1131	· ·	72.462	41.293	48.386	1.00	27.58
ATOM 57		LEU	1132	公藏	71.431	39.649	47.259	1.00	24.30
ATOM 57		LEU	1132	7	71.984	38.569	48.067	1.00	24.74
ATOM 57	72 CB	LEU	1132	行の方式を開発をは関係されてきる事件を	70.964	37.438	48.186	1.00	24.61
ATOM 57	73 CG	LEU	1132	海药	71.334	36.245	49.064	1.00	22.52
ATOM 57	74 CD1	LEU	1132		70.194	36.009	50.007	1.00	27.96
ATOM 57	75 CD2	LEU	1132	***	71.605	35.009	48.230	1.00	23.92
ATOM 57	76 C	LEU	1132	APPLICATION AS	73.276	38.023	47.489	1.00	25.14
ATOM 57	77 O	LEU	1132	254.3	73.350	37.746	46.297	1.00	27.15
ATOM 57	78 N	VAL	1133	26	74.288	37.857	48.333	1.00	25.08
ATOM 57	79 CA	VAL	1133	· V	75.577	37.327	47.890	1.00	24.16
ATOM 58	BO CB	VAL	1133	ş*	76.757	38.156	48.445	1.00	23.60
ATOM 58	81 CG1	VAL	1133	Ŧ	78.076	37.629	47.872	1.00	19.70
ATOM 58	82 CG2	VAL	1133	4	76.556	39.645	48.134	1.00	18.12
ATOM 58	83 C	VAL	1133	í	75.719	35.890	48.377	1.00	24.92
ATOM 58	84 O	VAL	1133		75.573	35.620	49.572	1.00	25.15
ATOM 58	85 N	THR	1134	·	75.987	34.969	47.456	1.00	24.88
ATOM 58	B6 CA	THR	1134		76.125	33.563	47.812	1.00	25.34
ATOM 58	87 CB	THR	1134		75.611	32.638	46.677	1.00	27.21
ATOM 58	88 OG1	THR	1134		76.498	32.698	45.550	1.00	26.50
ATOM 58		THR	1134		74.204	33.054	46.236	1.00	24.71
ATOM 59		THR	1134		77.566	33.205	48.150	1.00	25.73
ATOM 59		THR	1134		78.476	34.010	47.944	1.00	26.83
ATOM 59		ARG	1135		77.776	31.981	48.630	1.00	25.40
ATOM 59		ARG	1135		79.112	31.504	48.991	1.00	23.76
ATOM 59		ARG	1135		79.027	30.150	49.689	1.00	22.71
ATOM 59		ARG	1135		78.413	29.062	48.835	1.00	25.45
ATOM 59		ARG	1135		78.383	27.742	49.566	1.00	26.50
ATOM 59		ARG	1135	:	79.722	27.265	49.897	1.00	27.92
ATOM 59		ARG	1135	;	80.174	27.097	51.135	1.00	27.79
ATOM 59		ARG	1135	``	79.405	27.366	52.180	1.00	28.04
ATOM 60		ARG	1135	5	81.404	26.652	51.327	1.00	30.59
ATOM 60		ARG	1135	: :	80.038	31.382	47.792	1.00	24.58
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ATOM 60		ARG	1135	à	81.219	31.091	47.950 46.580	1.00	25.10
ATOM 60		HIS	1136	5 3	79.496	31.546	46.589	1.00	25.35
ATOM 60		HIS	1136	<u>\$</u>	80.303	31.451	45.378	1.00	26.27
ATOM 60		HIS	1136	4	79.618	30.551	44.348	1.00	26.38
ATOM 60	06 CG	HIS	1136	÷.	79.283	29.194	44.872	1.00	27.82

WASHING CAR

		and the same		•			₹":		
<b>MOTA</b>	607	CD2	HIS	1136	78.091	28.629	45.174	1.00	28.51
<b>ATOM</b>	608	ŇD1	HIS	1136	80.242	28.264	45.213	1.00	29.89
<b>ATOM</b>	609	CE1	HIS	1136	79.657	27.188	45.710	1.00	29.44
<b>ATOM</b>	610	NE2	HIS	1136	78.353	27.387	45.697	1.00	31.77
<b>ATOM</b>	611	C	HIS	1136	80.540	32.834	44.794	1.00	26.66
<b>ATOM</b>	612	0	HIS	1136	81.064	32.966	43.686	1.00	27.04
<b>ATOM</b>	613	Ņ	ALA	1137	80.126	33.850	45.552	1.00	26.65
ATOM	614	ĊA	ALA	1137	80.265	35.253	45.179	1.00	25.32
ATOM	615	CB	ALA	1137	81.675	35.532	44.664	1.00	26.21
ATOM	616	Č	ALA	1137	79.219	35.743	44.177	1.00	25.87
ATOM	617	Õ	ALA	1137	79.280	36.890	43.724	1.00	24.80
ATOM	618	N	ASP	1138	78.256	34.887	43.837	1.00	24.81
ATOM	619	ĈA	ASP	1138	77.203	35.277	42.903	1.00	23.77
ATOM		СВ	ASP	1138	76.301	34.091	42.536	1.00	26.17
ATOM	621	ĈĠ	ASP	1138	77.038	32.962	41.827	1.00	27.49
ATOM	622	ØD1	ASP	1138	77.712	33.214	40.807	1.00	27.61
ATOM	623	0D2	ASP	1138	76.891	31.801	42.268	1.00	28.37
ATOM	624		ASP	1138	76.344	36.301	43.629	1.00	22.53
ATOM	625	© 0	ASP	1138	76.282	36.302	44.856	1.00	23.66
ATOM	626	Ň	VAL	1139	75.699	37.180	42.881	1.00	21.63
ATOM	627	ČA	VAL	1139	74.828	38.178	43.477	1.00	22.35
ATOM	628	ČВ	VAL	1139	75.287	39.627	43.161	1.00	20.65
ATOM	629	CG1	VAL	1139	74.385	40.625	43.854	1.00	17.61
ATOM	630	CG2	VAL	1139	76.736	39.841	43.607	1.00	16.25
ATOM	631	C	VAL	1139	73.438	37.908	42.915	1.00	24.89
ATOM	632	Õ	VAL	1139	73.270	37.696	41.706	1.00	27.94
ATOM	633	N	ILE	1140	72.447	37.895	43.796	1.00	24.15
ATOM	634	CA	ILE	1140	71.071	37.606	43.425	1.00	21.78
ATOM	635	CB	ILE	1140	70.588	36.338	44.156	1.00	19.13
ATOM	636	CG2	ILE	1140	69.104	36.166	43.999	1.00	19.57
ATOM	637	CG1	ILE	1140	71.329	35.104	43.647	1.00	17.97
ATOM	638	CD1	ILE	1140	71.069	33.877	44.498	1.00	16.36
ATOM	639	C	ILE	1140	70.149	38.748	43.816	1.00	22.53
ATOM	640	ŏ	ILE	1140	69.979	39.038	44.995	1.00	23.66
ATOM	641	Ň	PRO	1141	69.546	39.422	42.832	1.00	23.25
ATOM		CD	PRO	1141	69.768	39.320	41.383	1.00	22.90
ATOM		CA	PRO	1141	68.638	40.530	43.144	1.00	23.97
ATOM		CB	PRO	1141	68.328	41.111	41.770	1.00	24.50
ATOM	645	CG	PRO	1141	69.549	40.730	40.952	1.00	24.13
ATOM		C	PRO	1141	67.372	40.003	43.835	1.00	26.14
ATOM		Õ	PRO	1141	66.692	39.095	43.341	1.00	27.20
ATOM		Ņ	VAL	1142	67.085	40.556	44.999	1.00	26.19
ATOM	649	СA	VAL	1142	65.936	40.161	45.788	1.00	27.02
ATOM	650	СВ	VAL	1142	66.406	39.499	47.096	1.00	25.62
ATOM		CG1	VAL	1142	65.263	39.348	48.074	1.00	24.17
ATOM		CG2	VAL	1142	67.036	38.155	46.787	1.00	24.42
ATOM		Ç	VAL	1142	65.136	41.422	46.087	1.00	29.57
ATOM	654	Ö	VAL	1142	65.703	42.462	46.413	1.00	30.26
ATOM	655	Ņ	ARG	1143	63.827	41.358	45.896	1.00	31.86
ATOM	656	ĞΑ	ARG	1143	62.989	42.512	46.166	1.00	35.28
ATOM	657	ČВ	ARG	1143	61 964	42.715	45.053	1.00	38.62
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· 丁子子一名不知一日書西西江往 門面内衛子会園記及西京院会

CONTRACTOR CONTRACTOR

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ATOM 658	CG	ARG	1143	61.555	44.152	44.880	1. <b>0</b> 0	40.15
ATOM 659	CD	ARG	1143	60.377	44.489	45.748	1.00	44.51
ATOM 660	NE	ARG	1143	60.308	45.904	46.106	1.00	51.14
ATOM 661	CZ	ARG	1143	60.485	46.926	45.269	1.00	55.15
ATOM 662	NH1	ARG	1143	60.759	46.731	43.983	1.00	57.46
ATOM 663	NH2	ARG	1143	60.355	48.166	45.723	1.00	57.00
ATOM 664	С	ARG	1143	62.316	42.243	47.497	1.00	36.53
ATOM 665	0	ARG	1143	61.696	41.197	47.695	1.00	39.63
ATOM 666	N	ARG	1144	62.474	43.171	48.425	1.00	36.31
<b>ATOM 667</b>	CA	ARG	1144	61.917	43.010	49.750	1.00	36.40
ATOM 668	CB	ARG	1144	62.448	44.090	50.673	1.00	35.36
<b>ATOM 669</b>	CG	ARG	1144	🧯 62.311	43.749	52.125	1.00	35.23
<b>ATOM 670</b>	CD	ARG	1144	62.311 62.817 62.992 63.660 63.786 64.205 60.405 59.784 59.820 58.377 57.897	44.882	52.953	1.00	36.19
ATOM 671	NE	ARG	1144	🖟 62.992	44.497	54.346	1.00	39.02
ATOM 672	CZ	ARG	1144	§ 63.660	45.233	55.223	1.00	40.02
ATOM 673	NH1	ARG	1144	<b>§ 63.786</b>	44.834	56.481	1.00	38.46
ATOM 674	NH2	ARG	1144	§ 64.205	46.377	54.831	1.00	42.18
ATOM 675	C	ARG	1144	<b>60.405</b>	43.041	49.742	1.00	38.06
ATOM 676	0	ARG	1144	59.784	43.800	48.995	1.00	37.65
ATOM 677	N	ARG	1145	59.820	42.193	50.575	1.00	40.25
ATOM 678	CA	ARG		58.377	42.107	50.689	1.00	41.89
ATOM 679	CB	ARG	1145	-7	40.717	50.278	1.00	40.89
ATOM 680	CG	ARG	1145	§ 58.127	40.425	48.805	1.00	40.67
ATOM 681	CD	ARG	1145	57.432	41.454	47.960	1.00	40.17
ATOM 682	NE	ARG	1145	57.599	41.235	46.530	1.00	41.36
ATOM 683	CZ	ARG	1145	57.295	42.146	45.612	1.00	45.08 47.79
ATOM 684	NH1	ARG	1145	56.814	43.332 41.878	45.982 44.324	1.00 1.00	47.79
ATOM 685 ATOM 686	NH2 C	ARG ARG	1145 1145	57.465 57.903	42.458	52.090	1.00	42.89
ATOM 687	Ö	ARG	1145	56.720	42.725	52.295	1.00	44.14
ATOM 688	N	GLY	1146	58.832	42.493	53.043	1.00	43.96
ATOM 689	CA	GLY	1146	58.483	42.832	54.412	1.00	44.02
ATOM 690	C	GLY	1146	59.699	42.813	55.312	1.00	43.54
ATOM 691	Õ	GLY	1146	60.795	42.495	54.847	1.00	44.52
ATOM 692	N	ASP	1147	59.499	43.110	56.595	1.00	42.52
ATOM 693	CA	ASP	1147	60.570	43.134	57.596	1.00	40.57
ATOM 694	CB	ASP	1147	59.987	43.005	59.013	1.00	45.28
<b>ATOM 695</b>	CG	ASP	1147	59.051	44.151	59.382	1.00	51.16
ATOM 696	OD1	ASP	1147	58.092	43.897	60.151	1.00	53.15
<b>ATOM 697</b>	OD2	ASP	1147	59.271	45.296	58.916	1.00	54.39
<b>ATOM 698</b>	С	ASP	1147	<sub>3</sub> 61.665	42.080	57.424	1.00	37.05
<b>ATOM 699</b>	0	ASP	1147	62.845	42.387	57.552	1.00	37.14
ATOM 700	N	SER	1148	61.283	40.840	57.150	1.00	32.32
ATOM 701	CA	SER	1148	<b>62.278</b>	39.794	56.996	1.00	30.82
ATOM 702	CB	SER	1148	62.436	39.055	58.321	1.00	32.46
ATOM 703	OG	SER	1148	61.246	38.376	58.667	1.00	35.71
ATOM 704	С	SER	1148	62.013	38.801	55.866	1.00	28.99
ATOM 705	0	SER	1148	៊្ន <b>62.313</b>	37.619	56.003	1.00	26.58
ATOM 706	N	ARG	1149	§61.50 <b>4</b>	39.288	54.736	1.00	29.34
ATOM 707	CA	ARG	1149	<sup>§</sup> 61.211	38.426	53.589	1.00	30.00
ATOM 708	CB	ARG	1149	[59. <b>76</b> 0	37.914	53.663	1.00	33.43
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ATOM	709	CG	ARG	1149	59.363	36.826	52.655	1.00	36.36
<b>ATOM</b>	710	CD.	ARG	1149	58.733	37.418	51.389	1.00	42.94
<b>ATOM</b>	711	NE	ARG	1149	57.958	36.444	50.610	1.00	46.67
<b>ATOM</b>	712	CZ	ARG	1149	57.764	36.514	49.291	1.00	46.83
<b>ATOM</b>	713	NH1	ARG	1149	58.288	37.506	48.594	1.00	45.95
<b>ATOM</b>	714	NH2	ARG	1149	57.021	35.603	48.668	1.00	47.58
ATOM	715	С	ARG	1149	61.442	39.191	52.290	1.00	28.92
ATOM	716	0	ARG	1149	61.181	40.401	52.206	1.00	27.96
ATOM	717	N:	GLY	1150	61.921	38.471	51.282	1.00	27.08
ATOM	718	CA	GLY	1150	62.190	39.065	49.986	1.00	25.77
ATOM	719	C	GLY	1150	61.983	38.029	48.900	1.00	25.52
ATOM	720	ő	GLY	1150	62.093	36.831	49.147	1.00	24.50
ATOM	721	N.	SER	1151	61.672	38.479	47.694	1.00	25.63
ATOM	722	CA	SER	1151	61.441	37.572	46.583	1.00	27.27
ATOM	723	CB	SER	1151	60.076	37.859	45.960	1.00	29.08
ATOM	724	OG	SER	1151	59.833	39.257	45.883	1.00	29.83
ATOM	725	C	SER	1151	62.528	37.718	45.533	1.00	27.69
ATOM	726	ŏ	SER	1151	62.885	38.837	45.150	1.00	28.46
ATOM	727	N.	LEU	1152	63.093	36.592	45.109	1.00	26.82
ATOM	728	CA	LEU	1152	64.129	36.609	44.089	1.00	27.90
ATOM	729	CB	LEU	1152	64.658	35.202	43.828	1.00	24.63
ATOM	730	CG	LEU	1152	65.784	34.643	44.686	1.00	23.94
ATOM	731	CD1	LEU	1152	65.377	34.577	46.139	1.00	22.37
ATOM	732	CD2	LEU	1152	66.145	33.273	44.155	1.00	19.80
ATOM	733	C	LEU	1152	63.501	37.127	42.811	1.00	29.83
ATOM	734	Ö	LEU	1152	62.394	36.722	42.463	1.00	33.35
ATOM	735	N	LEU	1153	64.199	38.009	42.107	1.00	30.33
ATOM	736	CA	LEU	1153	63.676	38.538	40.858	1.00	29.78
ATOM	737	CB	LEU	1153	64.521	39.716	40.379	1.00	26.59
ATOM	738	CG	LEU	1153	64.020	41.065	40.896	1.00	25.76
ATOM	739	CD1	LEU	1153	63.897	41.039	42.394	1.00	24.26
MOTA	740	CD2	LEU	1153	64.940	42.176	40.444	1.00	26.30
ATOM	741	C <sub>D</sub> Z	LEU	1153	63.643	37.433	39.808	1.00	31.23
ATOM	742	Ö	LEU	1153	62.853	37.474	38.869	1.00	33.74
ATOM	743	N	SER	1154	64.503	36.440	39.987	1.00	32.78
ATOM	744	CA	SER	1154	64.596	35.309	39.081	1.00	34.85
ATOM	745	CB	SER	1154	65.780	35.481	38.132	1.00	36.29
ATOM	746	OG	SER	1154	65.855	36.805	37.636	1.00	43.91
ATOM	7 <del>4</del> 0	C	SER	1154	64.846	34.107	39.961	1.00	35.31
ATOM	748	ŏ	SER	1154	65.943	33.949	40.505	1.00	37.17
ATOM	749	N.	PRO	1155	63.807	33.291	40.190	1.00	35.71
ATOM	7 <del>4</del> 9 750	CD	PRO	1155	62.401	33.474	39.780	1.00	36.01
ATOM	750 751	CA	PRO	1155	63.949	32.101	41.031	1.00	34.86
ATOM	751 752	CB	PRO	1155	62.599	31.419	40.871	1.00	35.84
		CG	PRO-	1155	61.670	32.598	40.777	1.00	36.09
ATOM	753 754							1.00	33.69
ATOM	754 755	C;	PRO	1155	65.101	31.245	40.540	1.00	33.22
MOTA	755 756	O.	PRO	1155 1156	65.426	31.254	39.352 41.459	1.00	33.17
MOTA	756 757	N <sub>A</sub>	ARG	1156 1156	65.726	30.525		1.00	35.02
ATOM	757 750	CA	ARG	1156 1156	66.873	29.700	41.124	1.00	37.90
MOTA	758 750	CB CC	ARG	1156	68.173	30.405	41.566		40.72
ATOM	759	CG	ARG	1156	68.856	31.265	40.505	1.00	70.72

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# FIGURE 3 (CONT.)

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ATOM	760	CD	ARG	1156	68.739	32.740	40.813	1.00	43.82
ATOM	761	NE	ARG	1156	69.536	33.543	39.886	1.00	49.55
ATOM	762	CZ	ARG	1156	69.696	34.864	39.972	1.00	51.56
		NH1	ARG			35.551	40.943	1.00	52.24
ATOM	763			1156	69.117				
ATOM	764	NH2	ARG	1156	70.452	35.502	39.089	1.00	53.76
ATOM	765	С	ARG	1156	66.799	28.348	41.804	1.00	34.39
ATOM	766	0	ARG	1156	66.115	28.193	42.811	1.00	35.64
ATOM	767	N	PRO	1157	67.501	27.344	41.258	1.00	34.78
ATOM	768	CD	PRO	1157	68.361	27.376	40.063	1.00	36.56
					••				
ATOM	769	CA	PRO	1157	67.495	26.008	41.859	1.00	35.76
ATOM	770	CB	PRO	1157	្ទ 68.577	25.277	41.066	1.00	35.08
ATOM	771	CG	PRO	1157	68.488	25.916	39.721	1.00	36.87
ATOM	772	C	PRO	1157	§ 67.930	26.189	43.305	1.00	36.38
ATOM	773	0	PRO	1157	68.824	26.993	43.579	1.00	38.01
ATOM	774	N	ILE	1158	67.317	25.456	44.226	1.00	35.10
					46				33.87
ATOM	775	CA	ILE	1158	67.675	25.599	45.629	1.00	
ATOM	776	CB	ILE	1158	§ 66.917	24.586	46.526	1.00	33.81
ATOM	777	CG2	ILE	1158	67.042	23.174	45.973	1.00	34.22
MOTA	778	CG1	ILE	1158	67.418	24.690	47.972	1.00	36.64
ATOM	779	CD1	ILE	1158	66.985	23.541	48.876	1.00	38.94
ATOM	780	С	ILE	1158	69.185	25.486	45.834	1.00	32.49
ATOM	781	ŏ	ILE	1158	69.765	26.236	46.610	1.00	32.56
					• 3			1.00	32.75
	782	N	SER	1159	69.830	24.609	45.075		
ATOM	783	CA	SER	1159	71.271	24.418	45.203	1.00	33.76
ATOM	784	CB	SER	1159	71.769	23.392	44.188	1.00	33.12
MOTA	785	OG	SER	1159	71.450	23.816	42.875	1.00	38.29
ATOM	786	C	SER	1159	. 72.035	25.722	45.028	1.00	32.08
ATOM	787	0	SER	1159	73.003	25.971	45.737	1.00	31.63
ATOM	788	Ň	TYR	1160	71.591	26.554	44.092	1.00	29.65
ATOM	789	CA	TYR	1160	71.051	27.822	43.835	1.00	27.91
ATOM	790	CB	TYR	1160	71.482	28.628	42.798	1.00	23.87
ATOM	791	CG	TYR	1160	72.293	29.740	42.158	1.00	22.81
ATOM	792	CD1	TYR	1160	73.402	29.455	41.368	1.00	22.72
ATOM	793	CE1	TYR	1160	74.132	30.476	40.755	1.00	23.32
<b>ATOM</b>	794	CD2	TYR	1160	71.934	31.078	42.319	1.00	23.14
ATOM	795	CE2	TYR	1160	72.656	32.104	41.704	1.00	21.74
ATOM	796	CZ	TYR	1160	73.749	31.793	40.928	1.00	22.91
						32.793			24.05
	797	ОН	TYR	1160	74.454		40.307	1.00	
	798	C	TYR	1160	72.413	28.638	45.118	1.00	29.71
ATOM	799	0	TYR	1160	73.381	29.400	45.258	1.00	32.87
ATOM	800	N	LEU	1161	71.479	28.469	46.054	1.00	27.50
<b>ATOM</b>	801	CA	LEU	1161	71.522	29.192	47.320	1.00	26.61
	802	СВ	LEU	1161	70.140	29.752	47.670	1.00	26.28
	803	CG	LEU	1161	69.679	31.031	46.958	1.00	28.68
					_				
	804	CD1	LEU	1161	69.484	30.775	45.469	1.00	29.40
	805	CD2	LEU	1161	68.392	31.543	47.585	1.00	26.34
ATOM	806	С	LEU	1161	72.054	28.374	48.495	1.00	26.66
ATOM	807	0	LEU	1161	72.247	28.905	49.588	1.00	28.59
	808	Ň	ALA	1162	72.297	27.089	48.275	1.00	26.43
	809	CA	ALA	1162	72.790	26.213	49.330	1.00	26.08
					**				27.54
ATOM	810	CB	ALA	1162	72.854	24.773	48.833	1.00	27.34
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ATOM 813 N GLY 1163 75.266 26.857 51.983 1.00 26.94 ATOM 815 C GLY 1163 75.724 28.351 52.043 1.00 25.00 ATOM 816 O GLY 1163 75.724 28.351 52.043 1.00 25.00 ATOM 817 N SER 1164 76.767 28.771 52.529 1.00 26.71 ATOM 818 CA SER 1164 74.378 30.597 51.805 1.00 23.26 ATOM 818 CA SER 1164 74.376 31.267 50.503 1.00 23.26 ATOM 818 CB SER 1164 74.376 31.267 50.503 1.00 23.26 ATOM 820 OG SER 1164 74.376 31.267 50.503 1.00 23.11 ATOM 821 C SER 1164 74.376 31.267 50.503 1.00 23.16 ATOM 821 C SER 1164 74.315 31.243 52.968 1.00 22.96 ATOM 823 N SER 1165 73.412 30.474 53.789 1.00 25.28 ATOM 824 CA SER 1165 73.412 30.474 53.789 1.00 25.28 ATOM 825 CB SER 1165 73.790 31.113 54.905 1.00 25.28 ATOM 826 OG SER 1165 73.790 31.695 55.627 1.00 25.92 ATOM 827 C SER 1165 73.790 31.695 55.620 1.00 25.92 ATOM 828 O SER 1165 73.790 31.695 55.620 1.00 23.93 ATOM 829 N GLY 1166 73.610 32.951 56.193 1.00 23.93 ATOM 830 CA GLY 1166 73.610 32.951 56.193 1.00 22.45 ATOM 831 C GLY 1166 75.785 30.603 50.02 1.00 22.45 ATOM 832 O GLY 1166 75.785 30.503 5.000 22.45 ATOM 834 CA GLY 1167 74.965 34.692 54.892 1.00 22.45 ATOM 835 C GLY 1166 75.786 35.677 56.752 1.00 22.45 ATOM 836 C GLY 1167 74.965 34.992 54.892 1.00 22.45 ATOM 837 N PRO 1168 75.476 34.762 56.207 1.00 22.45 ATOM 838 C D FRO 1168 75.476 34.062 56.207 1.00 22.45 ATOM 839 C A PRO 1168 75.478 39.545 59.300 1.00 22.73 ATOM 830 C GLY 1167 73.648 37.067 54.712 1.00 21.55 ATOM 830 C GLY 1167 73.648 37.067 54.712 1.00 21.55 ATOM 830 C GLY 1167 73.648 37.067 54.712 1.00 21.55 ATOM 840 C B PRO 1168 75.478 39.545 59.381 1.00 22.73 ATOM 840 C B PRO 1168 75.486 39.963 52.235 1.00 16.92 ATOM 841 C G LEU 1169 70.045 40.673 52.381 1.00 20.96 ATOM 840 C B PRO 1168 75.486 39.965 52.255 1.00 16.92 ATOM 840 C B LEU 1170 77.546 34.92 51.818 1.00 20.67 ATOM 840 C B LEU 1169 70.045 40.673 52.381 1.00 20.66 ATOM 850 C LEU 1169 70.045 40.673 52.381 1.00 20.66 ATOM 850 C LEU 1169 70.045 40.673 52.381 1.00 20.66 ATOM 850 C LEU 1169 70.045 40.673 52.381 1.00 20.66 ATOM 850 C LEU 1169 70.544 42.30 50.477 1.00 20.66 AT		ATOM	811	С	ALA	1162		74,148	26.638	49.878	1.00	26.55
ATOM 814 CA GLY 1163 75.526 26.857 51.869 1.00 24.56 ATOM 816 C GLY 1163 75.724 28.351 52.043 1.00 25.07 ATOM 816 C GLY 1163 75.724 28.351 52.043 1.00 25.07 ATOM 817 N SER 1164 74.718 29.151 51.704 1.00 23.26 ATOM 819 CB SER 1164 74.376 31.267 50.503 1.00 23.26 ATOM 820 CG SER 1164 75.068 30.759 49.372 1.00 25.78 ATOM 821 C SER 1164 75.068 30.759 49.372 1.00 25.78 ATOM 821 C SER 1164 75.068 30.759 49.372 1.00 25.78 ATOM 822 C SER 1164 74.153 32.466 53.102 1.00 25.78 ATOM 822 C SER 1164 74.153 32.466 53.102 1.00 25.14 ATOM 823 N SER 1165 73.412 30.474 53.789 1.00 25.28 ATOM 824 CA SER 1165 73.412 30.474 53.789 1.00 25.28 ATOM 825 CB SER 1165 72.468 28.977 56.096 1.00 25.04 ATOM 826 CG SER 1165 72.468 28.977 56.096 1.00 25.04 ATOM 827 C SER 1165 73.403 31.695 55.820 1.00 25.60 ATOM 828 O SER 1165 73.479 31.103 55.6193 1.00 23.49 ATOM 830 CA GLY 1166 73.610 32.951 56.193 1.00 23.49 ATOM 831 C GLY 1166 75.478 34.692 54.892 1.00 22.49 ATOM 832 C GLY 1166 75.478 34.692 54.892 1.00 22.45 ATOM 833 N GLY 1166 75.478 34.692 54.892 1.00 22.45 ATOM 834 CA GLY 1166 75.478 35.697 56.752 1.00 22.45 ATOM 835 C GLY 1167 74.965 34.692 54.892 1.00 22.45 ATOM 836 C GLY 1167 75.452 35.697 56.752 1.00 22.45 ATOM 837 C SER 1165 75.478 35.697 56.752 1.00 22.45 ATOM 838 C D PRO 1168 75.468 37.067 54.712 1.00 22.45 ATOM 838 C D PRO 1168 75.468 37.067 54.712 1.00 22.45 ATOM 838 C D PRO 1168 75.648 39.663 52.235 1.00 16.92 ATOM 838 C D PRO 1168 75.648 39.663 52.235 1.00 16.92 ATOM 841 C G PRO 1168 75.487 39.868 52.235 1.00 20.96 ATOM 842 C C PRO 1168 75.487 39.868 52.235 1.00 20.96 ATOM 844 N LEU 1169 72.472 40.496 52.731 1.00 20.95 ATOM 845 CA LEU 1169 71.441 40.950 51.818 1.00 20.49 ATOM 846 CB LEU 1169 71.441 40.950 51.818 1.00 20.49 ATOM 847 CG LEU 1169 71.441 40.950 51.818 1.00 20.66 ATOM 849 CD2 LEU 1169 68.652 39.858 50.459 1.00 20.96 ATOM 840 CB PRO 1168 73.472 40.496 52.731 1.00 20.95 ATOM 845 CA LEU 1169 71.441 40.950 51.818 1.00 20.67 ATOM 846 CB LEU 1170 75.246 43.277 50.028 1.00 1.016.92 ATOM 850 C LEU 1169 71.541 44.2729 48.		<b>ATOM</b>	812	0	ALA	1162		75.035	27.049	49.132	1.00	25.22
ATOM 815 C GLY 1163		ATOM	813	N	GLY	1163		74.294	26.505	51.193		26.94
ATOM 816												
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ATOM: 862	CB	CYS	1171	70.628	48.524	50.531	1.00	22.30
ATOM 863	SG	CYS	1171	71.982	49.681	50.780	1.00	26.39
ATOM 864	C	CYS	1171	71.712	47.929	48.332	1.00	23.53
ATOM 865	ŏ	CYS	1171	72.858	47.527	48.110	1.00	22.06
ATOM: 866	Ň	PRO	1172	71.124	48.850	47.542	1.00	25.28
ATOM 867	CD	PRO	1172	69.721	49.317	47.553	1.00	23.57
				71.830	49.396	46.371	1.00	23.81
ATOM 868	CA	PRO	1172		4			22.44
ATOM: 869	CB	PRO	1172	70.831	50.418	45.834	1.00	
ATOM: 870	CG	PRO	1172	69.517	49.769	46.131	1.00	21.24
ATOM: 871	C	PRO	1172	73.188	50.054	46.661	1.00	24.42
ATOM: 872	Ο -	PRO	1172	73.981	50.288	45.746	1.00	25.44
ATOM 873	N	ALA	1173	73.446	50.366	47.927	1.00	23.25
ATOM 874	CA	ALA	1173	74.691	51.010	48.333	1.00	22.05
ATOM 875	CB	ALA	1173	74.381	52.102	49.356	1.00	19.70
ATOM 876	С	ALA	1173	75.731	50.033	48.903	1.00	21.83
ATOM 877	0	ALA	1173	76.794	50.449	49.365	1.00	21.56
ATOM 878	N	GLY	1174	75.402	48.745	48.911	1.00	20.69
ATOM: 879	CA	GLY	1174	76.313	47.746	49.444	1.00	20.88
ATOM: 880	C	GLY	1174	76.286	47.625	50.962	1.00	21.00
ATOM: 881	ŏ	GLY	1174	77.148	46.975	51.549	1.00	22.80
ATOM 882	N	HIS	1175	75.310	48.261	51.599	1.00	20.13
ATOM: 883	CA	HIS	1175	75.170	48.218	53.052	1.00	19.74
ATOM: 884	CB	HIS	1175	74.585	49.533	53.569	1.00	20.08
ATOM 885	CG	HIS	1175	75.465	50.726	53.336	1.00	21.55
						52.714	1.00	23.16
ATOM: 886	CD2	HIS	1175	76.660	50.845			22.98
ATOM: 887	ND1	HIS	1175	75.134	51.990	53.775	1.00	
ATOM 888	CE1	HIS	1175	76.088	52.837	53.433	1.00	23.40
ATOM: 889	NE2	HIS	1175	77.026	52.168	52.787	1.00	22.42
ATOM 890	C	HIS	1175	74.277	47.049	53.481	1.00	20.52
ATOM 891	0	HIS	1175	73.344	46.679	52.770	1.00	21.87
ATOM: 892	N	ALA	1176	74.553	46.492	54.653	1.00	19.06
ATOM 893	CA	ALA	1176	73.809	45.362	55.182	1.00	18.89
ATOM 894	CB	ALA	1176	74.470	44.863	56.442	1.00	18.59
ATOM: 895	С	ALA	1176	72.353	45.643	55.475	1.00	21.37
ATOM 896	0	ALA	1176	72.031	46.496	56.304	1.00	21.49
ATOM 897	N	VAL	1177	71.473	44.897	54.817	1.00	22.39
<b>ATOM 898</b>	CA	VAL	1177	70.035	45.024	55.023	1.00	21.72
ATOM 899	CB	VAL	1177	69.246	44.821	53.703	1.00	22.74
ATOM 900	CG1	VAL	1177	67.741	44.788	53.975	1.00	22.68
ATOM: 901	CG2	VAL	1177	69.582	45.930	52.720	1.00	20.67
ATOM: 902	Č	VAL	1177	69.634	43.949	56.027	1.00	21.01
ATOM 903	ŏ	VAL	1177	68.814	44.182	56.915	1.00	22.35
ATOM 904	N	GLY	1178	70.245	42.777	55.891	1.00	20.58
ATOM: 905	CA	GLY	1178	69.968	41.668	56.782	1.00	19.29
					40.491		1.00	20.72
ATOM 906	C	GLY	1178	70.865		56.460		
ATOM 907	0	GLY	1178	71.693	40.564	55.545	1.00	20.77
ATOM 908	N	LEU	1179	70.752	39.436	57.260	1.00	23.38
ATOM 909	CA	LEU	1179	71.521	38.208	57.066	1.00	24.90
ATOM 910	CB	LEU	1179	72.001	37.651	58.408	1.00	27.14
ATOM 911	CG	LEU	1179	73.435	37.842	58.896	1.00	27.77
ATOM 912	CD1	LEU	1179	73.765	39.313	58.996	1.00	29.16
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### FIGURE 3 (CONT.)

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<b>ATOM</b>	913	CD2	LEU	1179	73.573	37.177	60.250	1.00	27.55
ATOM	914	С	LEU	1179	70.578	37.189	56.461	1.00	25.10
<b>ATOM</b>	915	0	LEU	1179	69.475	37.000	56.964	1.00	26.82
ATOM	916	N	PHE	1180	70.987	36.552	55.375	1.00	25.52
ATOM	917	CA	PHE	1180	70.163	35.536	54.744	1.00	26.02
ATOM	918	CB	PHE	1180	70.861	35.030	53.485	1.00	26.33
ATOM	919	CG	PHE	1180	70.193	33.858	52.841	1.00	25.63
ATOM	920	CD1	PHE	1180	68.809	33.754	52.804	1.00	24.18
ATOM	921	CD2	PHE	1180	70.961	32.855	52.258	1.00	26.86
ATOM	922	CE1	PHE	1180	68.203	32.669	52.196	1.00	26.34
ATOM	923	CE2	PHE	1180	70.359	31.760	51.646	1.00	28.46
ATOM	924	CZ	PHE	1180	68.978	31.667	51.614	1.00	27.68
ATOM	925	C	PHE	1180	69.947	34.403	55.751	1.00	27.04 28.87
MOTA	926 927	O N	PHE ARG	1180 1181	70.904 68.692	33.763 34.197	56.200	1.00 1.00	20.07 27.75
MOTA MOTA	928	CA	ARG	1181	68.335	33.168	56.135 57.105	1.00	28.04
ATOM	929	CB	ARG	1181	67.193	33.647	58.014	1.00	28.31
ATOM	930	CG	ARG	1181	66.773	32.609	59.047	1.00	30.17
ATOM	931	CD	ARG	1181	65.340	32.795	59.494	1.00	33.18
ATOM	932	NE	ARG	1181	65.225	33.558	60.730	1.00	37.63
ATOM	933	CZ	ARG	1181	64.538	34.694	60.858	1.00	40.99
ATOM	934	NH1	ARG	1181	63.900	35.226	59.818	1.00	40.68
ATOM	935	NH2	ARG	1181	64.455	35.281	62.048	1.00	42.67
ATOM	936	С	ARG	1181	67.962	31.827	56.477	1.00	28.46
ATOM	937	0	ARG	1181	68.499	30.784	56.872	1.00	30.26
ATOM	938	N	ALA	1182	67.046	31.838	55.514	1.00	27.65
<b>ATOM</b>	939	CA	ALA	1182	66.637	30.589	54.887	1.00	26.77
ATOM	940	CB	ALA	1182	65.686	29.841	55.794	1.00	28.57
ATOM	941	С	ALA	1182	66.002	30.777	53.529	1.00	26.90
ATOM	942	0	ALA	1182	65.457	31.842	53.223	1.00	24.79
MOTA	943	N	ALA	1183	66.085	29.727	52.720	1.00	27.64
ATOM	944	CA	ALA	1183	65.519	29.714	51.382	1.00	29.29
MOTA	945	CB	ALA	1183	66.356	28.821	50.469	1.00	28.99
ATOM	946	C	ALA	1183	64.080	29.207	51.433	1.00	31.69
ATOM	947	0	ALA	1183	63.803	28.136	51.992	1.00	31.90
MOTA	948	N	VAL	1184	63.170	30.012	50.893	1.00	32.81 32.42
MOTA MOTA	949 950	CA CB	VAL VAL	1184 1184	61.751 60.893	29.681 30.928	50.833 51.005	1.00 1.00	30.12
ATOM	951	CG1	VAL	1184	59.440	30.583	50.781	1.00	32.26
ATOM	952	CG2	VAL	1184	61.106	31.522	52.380	1.00	30.64
ATOM	953	C	VAL	1184	61.498	29.131	49.441	1.00	33.36
ATOM	954	ŏ	VAL	1184	61.370	29.894	48.478	1.00	32.09
ATOM	955	N	CYS	1185	61.403	27.816	49.326	1.00	35.08
ATOM	956	CA	CYS	1185	61.211	27.215	48.017	1.00	39.13
ATOM	957	CB	CYS	1185	62.486	26.482	47.601	1.00	41.48
ATOM	958	SG	CYS	1185	63.419	25.872	48.998	1.00	44.16
ATOM	959	C	CYS	1185	60.020	26.297	47.822	1.00	38.16
ATOM	960	Ö	CYS	1185	59.487	25.720	48.772	1.00	36.83
ATOM	961	N	THR	1186	59.574	26.236	46.571	1.00	38.73
ATOM	962	CA	THR	1186	58.469	25.385	46.185	1,00	37.64
<b>ATOM</b>	963	CB	THR	1186	57.582	26.052	45.133	1.00	33.24
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ATOM: OGA	OG1	THR	1106	57 160	27.327	45.617	1.00	31.32
ATOM 964			1186	57.162	· ·			
ATOM: 965	CG2	THR	1186	56.340	25.228	44.896	1.00	35.61
ATOM: 966	. C	THR	1186	59.040	24.049	45.703	1.00	40.01
ATOM: 967	0	THR	1186	59.763	23.394	46.453	1.00	43.80
ATOM 968	N	ARG	1187	58.815	23.666	44.454	1.00	40.59
ATOM: 969	CA	ARG	1187	59.313	22.371	44.016	1.00	42.08
ATOM: 970	CB	ARG	1187	58.452	21.812	42.879	1.00	44.63
<b>ATOM</b> ₹ 971	CG	ARG	1187	56.993	21.591	43.280	1.00	45.00
ATOM: 972	CD	ARG	1187	56.253	20.703	42.298	1.00	45.42
ATOM <sup>₹</sup> 973	NE	ARG	1187	56.736	19.327	42.361	1.00	47.14
ATOM: 974	CZ	ARG	1187	57.309	18.683	41.348	1.00	48.66
ATOM: 975	NH1	ARG	1187	57.475	19.287	40.175	1.00	49.91
ATOM 976	NH2	ARG	1187	57.731	17.433	41.511	1.00	49.91
ATOM: 977	С	ARG	1187	60.788	22.349	43.668	1.00	42.04
ATOM 978	Ö	ARG	1187	61.165	22.021	42.545	1.00	44.12
ATOM 979	Ň	GLY	1188	61.623	22.687	44.647	1.00	41.58
ATOM 980	CA	GLY	1188	63.060	22.692	44.435	1.00	40.35
ATOM: 981	C	GLY	1188	63.591	24.022	43.935	1.00	39.09
ATOM 981	Ö	GLY	1188	64.800	24.235	43.881	1.00	40.73
ATOM: 982							1.00	36.60
312	N	VAL	1189	62.692	24.921	43.561	1.00	
ATOM 984	CA	VAL	1189	63.097	26.220	43.069		35.55
ATOM 985	CB	VAL	1189	62.290	26.614	41.837	1.00	34.59
ATOM 986	CG1	VAL	1189	62.634	28.026	41.401	1.00	36.44
ATOM 987	CG2	VAL	1189	62.579	25.646	40.716	1.00	35.37
ATOM2 988	C	VAL	1189	62.928	27.276	44.145	1.00	36.38
ATOM: 989	0	VAL	1189	61.834	27.450	44.677	1.00	37.93
ATOM- 990	N	ALA	1190	64.027	27.928	44.510	1.00	35.83
ATOM: 991	CA	ALA	1190	64.002	28.983	45.513	1.00	34.95
ATOM: 992	CB	ALA	1190	65.400	29.240	46.045	1.00	34.41
ATOM 993	С	ALA	1190	63.465	30.228	44.827	1.00	35.05
ATOM≠994	O	ALA	1190	64.062	30.715	43.865	1.00	35.76
ATOM 995	N	LYS	1191	62.321	30.717	45.292	1.00	34.34
ATOM: 996	CA	LYS	1191	61.710	31.907	44.709	1.00	33.55
ATOM 997	CB	LYS	1191	60.252	31.636	44.321	1.00	36.37
ATOM 998	CG	LYS	1191	60.037	30.443	43.404	1.00	38.02
ATOM 999	CD	LYS	1191	58.577	30.318	43.028	1.00	41.03
<b>ATOM 1000</b>	CE	LYS	1191	58.333	29.133	42.108	1.00	45.01
ATOM 1001	NZ	LYS	1191	56.902	29.078	41.674	1.00	45.80
ATOM 1002	С	LYS	1191	61.761	33.071	45.692	1.00	33.05
ATOM 1003	O ·	LYS	1191	61.652	34.231	45.298	1.00	36.29
ATOM 1004		ALA	1192	61.896	32.767	46.976	1.00	30.97
ATOM 1005	CA	ALA	1192	61.955	33.809	47.985	1.00	28.85
ATOM 1006	CB	ALA	1192	60.615	33.971	48.684	1.00	28.99
ATOM 1007	C	ALA	1192	63.051	33.494	48.984	1.00	28.42
ATOM 1008	0	ALA	1192	63.596	32.384	49.009	1.00	27.40
ATOM 1009	N	VAL	1193	63.299	34.452	49.863	1.00	27.93
ATOM 1009	CA	VAL	1193		•	50.847	1.00	27.23
				64.355	34.356			
ATOM 1011	CB	VAL	1193	65.569	35.180	50.329	1.00	27.43
ATOM 1012	CG1	VAL	1193	66.002	36.251	51.317	1.00	26.78
ATOM: 1013	CG2	VAL	1193	66.696	34.258	49.948	1.00	26.32
ATOM 1014	С	VAL	1193	63.858	34.863	52.204	1.00	28.65
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			7.	23/60 GURE 3 (CONT.	`			7) /k
			4. 59	GONE 3 (CONT.				**************************************
ATOM 1015	0	VAL	1193	63.059	35.803	52.281	1.00	29.70
ATOM 1016 ATOM 1017	N CA	ASP ASP	1194 1194	64.336 63.961	34.233 34.593	53.268 54.634	1.00 1.00	29.83 31.77
ATOM 1017	CB	ASP	1194	63.611	33.308	55.403	1.00	35.32
ATOM 1019	CG	ASP	1194	62.533	33.513	56.461	1.00	39.12
ATOM 1020	OD1	ASP	1194	62.701	32.961	57.574	1.00	40.47
ATOM 1021	OD2	ASP	1194	61.508	34.176	56.169	1.00	39.60
ATOM 1022	C	ASP	1194	65.218	35.227	55.226	1.00	29.50
ATOM 1023	0	ASP	1194	66.317	34.724	54.995	1.00	30.45 27.58
ATOM 1024 ATOM 1025	N CA	PHE PHE	1195 1195	65.092 66.292	36.322 36.927	55.966 56.537	1.00 1.00	25.93
ATOM 1025	CB	PHE	1195	66.981	37.869	55.532	1.00	21.65
ATOM 1027	CG	PHE	1195	66.204	39.118	55.204	1.00	17.29
ATOM 1028	CD1	PHE	1195	66.358	40.267	55.969	1.00	17.Õૃ7
ATOM 1029	CD2	PHE	1195	65.363	39.162	54.100	1.00	17.69
ATOM 1030	CE1	PHE	1195	65.689	41.447	55.644	1.00	17.82 19.76
ATOM 1031 ATOM 1032	CE2 CZ	PHE PHE	1195 1195	64.685 64.849	40.343 41.491	53.761 54.538	1.00 1.00	18.59
ATOM 1032 ATOM 1033	C	PHE	1195	66.140	37.590	57.897	1.00	25.99
ATOM 1034	ŏ	PHE	1195	65.034	37.746	58.404	1.00	27.20
ATOM 1035	N	ILE	1196	67.283	37.916	58.496	1.00	26.69
ATOM 1036	CA	ILE	1196	67.389	38.562	59.804	1.00	25.40
ATOM 1037	CB	ILE	1196	68.535	37.900	60.617	1.00	23.91 22.64
ATOM 1038 ATOM 1039	CG2 CG1	ILE ILE	1196 1196	68.599 68.357	38.457 36.381	62.027 60.645	1.00 1.00	20.68
ATOM 1039	CD1	ILE	1196	69.570	35.656	61.152	1.00	20.36
ATOM 1041	C	ILE	1196	67.777	40.026	59.548	1.00	28.07
ATOM 1042	0	ILE	1196	68.907	40.309	59.147	1.00	31.19
ATOM 1043	N	PRO	1197	66.853	40.972	59.757	1.00	28.04
ATOM 1044 ATOM 1045	CD CA	PRO PRO	1197 1197	65.466 67.187	40.830 42.382	60.225 59.521	1.00 1.00	27.62 29.04
ATOM 1045	CB	PRO	1197	65.851	43.087	59.764	1.00	27.29
ATOM 1047	CG	PRO	1197	65.177	42.204	60.758	1.00	27.91
ATOM 1048	C	PRO	1197	68.296	42.924	60.437	1.00	30.39
ATOM 1049	0	PRO	1197	68.445	42.469	61.571	1.00	30.42
ATOM 1050	N	VAL	1198	69.060	43.904	59.950	1.00	32.28
ATOM 1051 ATOM 1052	CA CB	VAL VAL	1198 1198	70.149 70.968	44.497 45.569	60.738 59.977	1.00 1.00	32.71 31.13
ATOM 1052	CG1	VAL	1198	71.893	44.906	58.992	1.00	32.44
ATOM 1054	CG2	VAL	1198	70.060	46.576	59.294	1.00	30.27
ATOM 1055	С	VAL	1198	69.706	45.106	62.046	1.00	33.07
ATOM 1056	0	VAL	1198	70.494	45.192	62.982	1.00	34.24
ATOM 1057	N	GLU	1199	68.459	45.557	62.112	1.00	34.76
ATOM 1058 ATOM 1059	CA CB	GLU GLU	1199 1199	67.942 66.502	46.133 46.601	63.348 63.167	1.00 1.00	35.58 38.30
ATOM 1059	CG	GLU	1199	66.347	47.817	62.251	1.00	43.36
ATOM 1061	CD	GLU	1199	66.682	47.546	60.781	1.00	44.71
ATOM 1062	OE1	GLU	1199	67.295	48.437	60.157	1.00	46.89
ATOM 1063	OE2	GLU	1199	66.319	46.470	60.248	1.00	43.96
ATOM 1064	C	GLU	1199	68.035	45.092	64.465	1.00	35.11 35.89
ATOM 1065	0	GLU	1199	68.357	45.424	65.599	1.00	3.
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WO 98/11134			Fl	24/60 GURE 3 (CONT.		PCT/	US97/161	82
ATOM 1066 ATOM 1067	N CA	ASN ASN	1200 1200	67,827 67,918	43.823 42.750	64.126 65.108	1.00 1.00	34.53 34.98
ATOM 1068	CB	ASN	1200	67.515	41.414	64.486	1.00	36.70
ATOM 1069	CG	ASN	1200	66.017	41.289	64.286	1.00	40.49
ATOM 1070	OD1	ASN	1200	65.442	40.231	64.528	1.00	43.89
ATOM 1071	ND2	ASN	1200	65.377	42.358	63.827	1.00	40.79
ATOM 1072	С	ASN	1200	69.345	42.663	65.640	1.00	35.32
ATOM 1073	0	ASN	1200	69.561	42.654	66.852	1.00	35.57
ATOM 1074	Ν	LEU	1201	70.319	42.635	64.733	1.00	34.45
ATOM 1075	CA	LEU	1201	71.727	42.568	65.124	1.00	32.80
ATOM 1076	CB	LEU	1201	72.643	42.631	63.900	1.00	31.13
ATOM 1077	CG	LEU	1201	72.856	41.383	63.053	1.00	30.40
ATOM 1078	CD1	LEU	1201	71.547	40.751	62.648	1.00	31.05
ATOM 1079	CD2	LEU	1201	73.654	41.764	61.833	1.00	30.17
ATOM 1080	C	LEU	1201	72.026	43.749	66.028	1.00	33.31
ATOM 1081	0	LEU	1201	72.535	43.585	67.135	1.00	33.72
ATOM 1082	N	GLU	1202	71.653	44.933	65.558	1.00	33.90
ATOM 1083	CA	GLU	1202	71.861	46.171	66.294	1.00	35.75
ATOM 1084	CB	GLU	1202	71.292	47.351	65.500	1.00	34.70
ATOM 1085	CG	GLU	1202	72.029	47.574	64.190	1.00	37.02
ATOM 1086	CD	GLU	1202	71.347	48.547	63.247	1.00	40.33
ATOM 1087	OE1	GLU	1202	71.990	48.934	62.256	1.00	43.28
ATOM: 1088 ATOM: 1089	OE2 C	GLU GLU	1202 1202	70.175 71.285	48.924 46.122	63.462 67.713	1.00 1.00	44.53 37.01
ATOM 1089 ATOM 1090	Ö	GLU	1202	71.265 71.977	46.459	68.673	1.00	38.58
ATOM 1090	N	THR	1202	70.043	45.672	67.855	1.00	36.83
ATOM 1091	CA	THR	1203	69.435	45.592	69.174	1.00	38.22
ATOM 1093	CB	THR	1203	67.956	45.209	69.099	1.00	38.67
ATOM 1094	OG1	THR	1203	67.828	43.951	68.434	1.00	42.02
ATOM 1095	CG2	THR	1203	67.168	46.264	68.352	1.00	38.87
ATOM 1096	С	THR	1203	70.156	44.548	70.001	1.00	39.56
ATOM 1097	0	THR	1203	70.425	44.764	71.180	1.00	40.65
ATOM 1098	N	THR	1204	70.479	43.421	69.370	1.00	40.29
ATOM 1099	CA	THR	1204	71.180	42.328	70.040	1.00	40.51
ATOM 1100	CB	THR	1204	71.409	41.146	69.075	1.00	39.96
ATOM 1101	OG1	THR	1204	70.150	40.520	68.785	1.00	37.72
ATOM 1102	CG2	THR	1204	72.353	40.120	69.677	1.00	41.21
ATOM 1103	C	THR	1204	72.492	42.818	70.648	1.00	41.33
ATOM 1104	0	THR	1204	72.932	42.322	71.684	1.00	42.16
ATOM 1105	N	MET	1205	73.101	43.810	70.012	1.00	42.92
ATOM 1106	CA	MET	1205	74.338	44.395	70.510	1.00	44.88
ATOM 1107	CB	MET	1205	75.064	45.136	69.388	1.00	43.43
ATOM 1108	CG	MET	1205	75.778 76.640	44.265	68.388	1.00	41.30
ATOM: 1109	SD	MET	1205	76.649	45.304	67.195 65.733	1.00	38.98
ATOM: 1110 ATOM: 1111	CE C	MET MET	1205 1205	75.690 74.008	45.025 45.40 <u>1</u>	65.732 71.612	1.00 1.00	39.73 48.30
ATOM: 1111	O	MET	1205	74.680	46.434	71.732	1.00	50.45
ATOM: 1112	N	ALA	1205	74.660 72.985	45.106	71.732 72.415	1.00	51.29
ATOM: 1114	CA	ALA	1206	72.560	46.001	73.494	1.00	52.72
ATOM: 1115	CB	ALA	1206	72.560 71.741	47.167	73. <del>434</del> 72.919	1.00	51.79
ATOM 1116	C	ALA	1206	71.746	45.253	74.550	1.00	52.50

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ISOURE 3 (CONT.)

ATOM 1117 O ALA 1206 70.842 44.487 74.147 1.00 52.28

#### **SNS4ACOORDINATES** (Complex A)

	Atom			•					ř,
•	Type	Resid	<u>#</u>	<b>X</b> .	<u>Y</u>	<u>Z</u>	OCC	<u>B</u>	·.
ATOM :		N	GLY	1678	82.660	20.678	69.142	1.00	47.82
ATOM :	2428	CA	GLY	1678	83.325	21.195	67.901	1.00	47.45
ATOM :	2429	С	GLY	1678	83.444	22.729	67.863	1.00	42.58
ATOM 2	2430	0	GLY	1678	83.086	23.435	68.815	1.00	46.32
ATOM :	2431	N	SER	1679	83.951	23.237	66.745	1.00	39.26
ATOM :	2432	CA	SER	1679	84.188	24.669	66.594	1.00	35.38
ATOM 2	2433	CB	SER	1679	85.628	24.981	67.011	1.00	34.24
ATOM 2	2434	OG	SER	1679	85.746	26.265	67.587	1.00	33.09
ATOM 2	2435	С	SER	1679	83.965	25.057	65.134	1.00	32.76
ATOM :	2436	0	SER	1679	84.084	24.218	64.240	1.00	34.29
ATOM 2	2437	N	VAL	1680	83.594	26.307	64.894	1.00	29.61
ATOM 2	2438	CA	VAL	1680	83.365	26.784	63.533	1.00	27.92
ATOM 2	2439	CB	VAL	1680	82.341	27.936	63.495	1.00	27.03
ATOM 2	2440	CG1	VAL	1680	81.995	28.277	62.069	1.00	26.39
ATOM 2	2441	CG2	VAL	1680	81.099	27.569	64.277	1.00	27.69
ATOM 2	2442	С	VAL	1680	84.692	27.311	63.007	1.00	26.65
ATOM 2	2443	0	VAL	1680	85.349	28.115	63.666	1.00	28.02
ATOM 2	2444	N	VAL	1681	85.108	26.844	61.842	1.00	24.80
ATOM 2	2445	CA	VAL	1681	86.364	27.300	61.278	1.00	23.49
ATOM 2	2446	CB	VAL	1681	87.331	26.117	61.027	1.00	23.05
ATOM 2		CG1	VAL	1681	87.591	25.384	62.314	1.00	21.97
ATOM 2		CG2	VAL	1681	86.751	25.153	60.018	1.00	24.91
ATOM 2		С	VAL	1681	86.106	28.061	59.985	1.00	22.71
ATOM 2		0	VAL	1681	85.156	27.762	59.261	1.00	22.32
ATOM 2		N	ILE	1682	86.923	29.077	59.729	1.00	22.79
ATOM 2		CA	ILE	1682	86.809	29.899	58.528	1.00	19.66
ATOM 2		CB	ILE	1682	87.309	31.332	58.811	1.00	16.80
ATOM 2		CG2	ILE	1682	87.324	32.164	57.540	1.00	16.76
ATOM 2		CG1	ILE	1682	86.417	31.981	59.875	1.00	13.77
ATOM 2		CD1	ILE	1682	86.965	33.244	60.432	1.00	9.56
ATOM 2		C	ILE	1682	87.627	29.247	57.418	1.00	19.97
ATOM 2		0	ILE	1682	88.844	29.115	57.522	1.00	20.81
ATOM 2		N	VAL	1683	86.946	28.826	56.361	1.00	20.17
ATOM 2		CA	VAL	1683	87.599	28.157	55.253	1.00	18.67
ATOM 2		CB	VAL	1683	86.827	26.867	54.857	1.00	20.13
ATOM 2	_		VAL	1683	86.595	25.992	56.091	1.00	19.43
ATOM 2			VAL	1683	85.511	27.205	54.188	1.00	21.44
ATOM 2			VAL	1683	87.785	29.039	54.027	1.00	17.87
ATOM 2			VAL	1683	88.279	28.592	52.993	1.00	19.88
ATOM 2		N	GLY	1684	87.400	30.297	54.135	1.00	16.04
ATOM 2		CA	GLY	1684	87.547	31.186	53.005	1.00	13.85
ATOM 2			GLY	1684	87.006	32.540	53.374	1.00	14.18
ATOM 2			GLY	1684	86.476	32.709	54.473	1.00	11.33
ATOM 2	2470	N	ARG	1685	87.119	33.492	52.452	1.00	16.02

ATOM 2471 ATOM 2472 ATOM 2473 ATOM 2474 ATOM 2475 ATOM 2476 ATOM 2477 ATOM 2478 ATOM 2479 ATOM 2480 ATOM 2481 ATOM 2481 ATOM 2482 ATOM 2483 ATOM 2484 ATOM 2485 ATOM 2486 ATOM 2487 ATOM 2488 ATOM 2489 ATOM 2490 ATOM 2491 ATOM 2491 ATOM 2493 ATOM 2494 ATOM 2495 ATOM 2493 ATOM 2494 ATOM 2495 ATOM 2496 ATOM 2500 ATOM 2501 ATOM 2502 ATOM 2500 ATOM 2501 ATOM 2502 ATOM 2503 ATOM 2504 ATOM 2505 ATOM 2506 ATOM 2507 ATOM 2508 ATOM 2509 ATOM 2511 ATOM 2511 ATOM 2511 ATOM 2511 ATOM 2511	CCCCNCNTCONCCCCCONCCCCCONCCCCCONCCONCCON	ARRGGGGGGG ARRARRARRILLILLILLILLILLILLILLILLILLILLILLILLIL	1685 1685 1685 1685 1685 1685 1685 1685	86.660 87.800 88.339 89.566 90.609 91.532 91.552 92.426 86.180 86.606 85.313 84.761 83.249 82.530 83.098 81.686 84.909 84.614 85.412 85.575 86.997 87.290 87.155 84.500 84.556 83.500 82.394 81.400 80.742 79.737 80.083 82.737 82.047 83.803 84.209 84.999 86.151 85.031 85.031 85.031 85.031 85.031 85.031 85.031 85.031 85.430 86.242 87.690 88.451 88.082	34.861 35.715 35.249 36.039 35.890 36.808 37.957 36.581 35.460 35.034 36.464 37.142 36.799 37.816 35.380 34.958 39.333 40.786 41.223 40.797 42.702 41.372 41.212 42.017 42.576 43.254 42.326 43.122 43.504 44.277 45.213 46.366 45.888 44.593 45.252 43.738 44.292 43.738 44.224	52.660 53.219 54.559 54.945 53.940 53.676 54.348 52.722 51.343 50.273 50.267 50.100 49.543 49.543 49.543 49.548 49.508 49.52 47.611 49.548 47.372 49.174 48.588 47.372 47.260 46.243 47.260 47.270 47.	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	16.38 17.53 18.90 20.79 21.09 22.64 21.65 21.05 15.81 17.35 14.82 13.14 14.91 9.50 16.63 16.16 13.59 14.05 15.01 15.36 15.07 16.77 16.77 16.77 16.77 16.77 16.57 16.18 15.30 14.41 12.70 10.09 19.55 23.25 23.03 21.45 22.42 25.52 21.46 21.23 23.50
ATOM 2510	N	GLY	1690	85.430	43.337	45.409	1.00	21.46
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ATOM 2515 ATOM 2516	CB	LYS	1691 1691	89.445 89.561	44.224 44.980	45.746 47.067	1.00	23.50 21.39
ATOM 2517	CG	LYS	1691	90.907	45.621	47.286	1.00	21.65
ATOM 2518	CD	LYS	1691	90.888	46.513	48.507	1.00	22.73
ATOM 2519	CE	LYS	1691	92.193	47.269	48.654	1.00	23.13
ATOM 2520 ATOM 2521	NZ C	LYS LYS	1691 1691	92.079 90.503	48.318 43.116	49.700 45.680	1.00 1.00	27.11 24.67
ATOM 2321	J	L13	1091	ev. <b>303</b>	45.110	-10. <b>000</b>	7.00	£7.0 <i>1</i>

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figure 3 (C	60
FIGURE 3 (C	CONT.)

ATOM 2522	0	LYS	1691	90.440	42.133	46.424	1.00	26.46
ATOM 2523	Ň	PRO	1692	91.475	43.249	44.765	1.00	25.07
ATOM 2524	CD	PRO	1692	91.517	44.246	43.682	1.00	24.13
ATOM 2525	CA	PRO	1692	92.549	42.270	44.598	1.00	25.54
ATOM 2526	CB	PRO	1692	92.933	42.456	43.143	1.00	22.92
ATOM 2527	CG	PRO	1692	92.815	43.920	42.986	1.00	23.88
ATOM 2528	C	PRO	1692	93.716	42.601	45.516	1.00	27.60
ATOM 2529	Ó	PRO	1692	93.810	43.716	46.029	1.00	29.48
ATOM 2530	Ņ	ALA	1693	94.570	41.620	45.770	1.00	31.04
ATOM 2531	ÇA	ALA	1693	95.736	41.833	46.621	1.00	34.86
ATOM 2532	CB	ALA	1693	96.112	40.543	47.326	1.00	35.21
ATOM 2533	C	ALA	1693	96.915	42.354	45.798	1.00	35.37
ATOM 2534	<u>Ô</u>	ALA	1693	96.891	42.145	44.559	1.00	35.58
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### tNS3COORDINATES (ComplexB)

Atom	#2 #5					**		
<u>Type</u>	Resid	<u>#</u>	<u>X</u>	<u>Y</u>	<u>Z</u>	<u>000</u>	<u>B</u>	
ATOM 1118	Ŋ	PRO	1028	74.820	45.651	43.675	1.00	28.69
ATOM 1119	<b>C</b> D	PRO	1028	75.076	44.493	44.550	1.00	28.33
ATOM 1120	CA	PRO	1028	74.869	46.897	44.441	1.00	28.80
ATOM 1121	CB	PRO	1028	74.807	46.400	45.883	1.00	28.68
ATOM 1122	CG	PRO	1028	75.597	45.138	45.819	1.00	27.37
ATOM 1123	С	PRO	1028	76.163	47.662	44.173	. 1.00	28.69
ATOM 1124	0	PRO	1028	77.141	47.094	43.666	1.00	30.88
ATOM 1125	Ν	ILE	1029	76.172	48.950	44.500	1.00	25.65
ATOM 1126	CA	ILE	1029	77.359	49.763	44.288	1.00	22.21
ATOM 1127	CB	ILE	1029	77.029	51.251	44.319	1.00	19.66
ATOM 1128	CG2	ILE	1029	78.254	52.059	43.933	1.00	21.71
ATOM 1129	CG1	ILE	1029	75.883	51.554	43.355	1.00	19.62
ATOM 1130	CD1	ILE	1029	75.398	52.960	43.428	1.00	14.82
ATOM 1131	С	ILE	1029	78.383	49.463	45.371	1.00	23.25
ATOM 1132	0	ILE	1029	78.094	49.586	46.559	1.00	25.52
ATOM 1133	N	THR	1030	79.561	49.023	44.951	1.00	23.20
ATOM 1134	CA	THR	1030	80.651	48.725	45.860	1.00	23.22
ATOM 1135	CB	THR	1030	80.916	47.207	45.958	1.00	23.28
ATOM 1136	OG1	THR	1030	81.077	46.659	44.641	1.00	27.79
ATOM 1137	CG2	THR	1030	79.764	46.508	46.652	1.00	24.32
ATOM 1138	С	THR	1030	81.879	49.406	45.277	1.00	23.10
ATOM 1139	0	THR	1030	81.982	49.562	44.059	1.00	24.23
ATOM 1140	N	ALA	1031	82.821	49.779	46.134	1.00	20.99
ATOM 1141	CA	ALA	1031	84.024	50.456	45.675	1.00	18.06
ATOM 1142	CB	ALA	1031	83.776	51.946	45.635	1.00	19.68
ATOM 1143	C.	ALA	1031	85.205	50.172	46.579	1.00	17.02
ATOM 1144	O <sub>i</sub>	ALA	1031	85.036	49.858	47.751	1.00	17.50
ATOM 1145	N;	TYR	1032	86.404	50.250	46.028	1.00	16.80
ATOM 1146	CA	TYR	1032	87.597	50.064	46.837	1.00	18.55
ATOM 1147	CB	TYR	1032	88.127	48.633	46.786	1.00	18.83
ATOM 1148	CG	TYR	1032	88.710	48.185	45.466	1.00	15.88
ATOM 1149	CD1	TYR	1032	89.997	48.545	45.088	1.00	13.44
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ATOM 1150	CE1	TYR	1032	90.540	48.083	43.899	1,00	15.11
<b>ATOM 1151</b>	CD2	TYR	1032	87.982	47.360	44.619	1.00	15.92
ATOM 1152	CE2	TYR	1032	88.514	46.893	43.436	1.00	15.01
ATOM 1153	CZ	TYR	1032	89.788	47.255	43.075	1.00	15.25
ATOM 1154	OH	TYR	1032	90.298	46.766	41.894	1.00	16.61
ATOM 1155	C	TYR	1032	88.645	51.045	46.368	1.00	18.69
ATOM 1156	0	TYR	1032	88.632	51.462	45.211	1.00	19.25
ATOM 1157	N	ALA	1033	89.525	51.443	47.274	1.00	19.62
ATOM 1158	CA	ALA	1033	90.567	52.394	46.944	1.00	20.61
ATOM 1159	CB	ALA	1033	90.539	53.545	47.922	1.00	18.51
ATOM 1160	C	ALA	1033	91.941	51.738	46.933	1.00	22.70
ATOM 1161	0	ALA	1033	92.142	50.670	47.525	1.00	24.65
ATOM 1162	N	GLN	1034	92.869	52.361	46.215	1.00	23.10
ATOM 1163	CA CB	GLN	1034	94.236	51.880	46.120	1.00	21.69
ATOM 1164 ATOM 1165	CG	GLN GLN	1034 1034	94.432	50.971	44.899	1.00	22.35
ATOM 1165 ATOM 1166	CD	GLN	1034	93.643 93.927	49.679 48.834	44.895 43.666	1.00 1.00	23.27 26.53
ATOM 1166 ATOM 1167	OE1	GLN	1034	93.982 93.982	49.341	42.544	1.00	27.77
ATOM 1167	NE2	GLN	1034	94.119	47.537	43.872	1.00	27.16
ATOM 1169	C	GLN	1034	95.111	53.103	45.955	1.00	22.49
ATOM 1170	ŏ	ĞLN	1034	94.780	54.005	45.186	1.00	21.85
ATOM 1171	Ň	ĞLN	1035	96.194	53.156	46.722	1.00	25.39
ATOM 1172	CA	GLN	1035	97.151	54.253	46.648	1.00	26.92
ATOM 1173	СВ	ĞLN	1035	97.779	54.498	48.013	1.00	29.66
ATOM 1174	CG	ĞLN	1035		55.414	47.971	1.00	37.10
ATOM 1175	CD	GLN	1035	98.983	56.413	49.112	1.00	43.12
<b>ATOM 1176</b>	OE1	GLN	1035	98.743	56.056	50.271	1.00	44.84
<b>ATOM 1177</b>	NE2	GLN	1035	99.238	57.678	48.790	1.00	45.69
<b>ATOM 1178</b>	С	GLN	1035	98.234	53.851	45.655	1.00	27.03
ATOM 1179	0	GLN	1035	98.750	52.741	45.726	1.00	29.15
ATOM 1180	N	THR	1036	98.582	54.745	44.738	1.00	26.03
ATOM 1181	CA	THR	1036	99. <b>58</b> 4	54.437	43.735	1.00	25.05
ATOM 1182	СВ	THR	1036	99.094	54.813	42.363	1.00	24.90
ATOM 1183	OG1	THR	1036	98.718	56.192	42.375	1.00	25.74
ATOM 1184	CG2	THR	1036	97.901	53.967	41.988	1.00	23.85
ATOM 1185	C	THR	1036	100.911	55.131	43.976	1.00	26.04
ATOM 1186	0	THR	1036	101.933	54.712	43.427	1.00	27.67
ATOM 1187	N	ARG	1037	100.895	56.232	44.719	1.00	25.73
ATOM 1188	CA	ARG	1037	102.137	56.928	45.023	1.00	25.76
ATOM 1189	CB	ARG	1037	102.596	57.805	43.873	1.00	25.31
ATOM 1190	CG	ARG	1037	101.623	58.844	43.446	1.00	27.06
ATOM 1191 ATOM 1192	CD NE	ARG ARG	1037 1037	102.326	59.847	42.575	1.00 1.00	27.29 25.59
ATOM 1192 ATOM 1193	CZ	ARG	1037	103.303 103.077	59.215 58.933	41.696 40.421	1.00	23.5 <del>9</del> 27.51
ATOM 1193	NH1	ARG	1037	101.893	59.223	39.877	1.00	27.27
ATOM 1195	NH2	ARG	1037	104.048	58.402	39.685	1.00	23.57
ATOM 1195	C	ARG	1037	102.088	57.727	46.303	1.00	26.18
ATOM 1190 ATOM 1197	Ö	ARG	1037	101.011	58.021	46.813	1.00	26.32
ATOM 1198	N	GLY	1037	103.266	58.059	46.823	1.00	26.76
ATOM 1199	CA	GLY	1038	103.200	58.806	48.064	1.00	28.78
ATOM 1200	C	ĞLY	1038	103.715	60.268	47.914	1.00	29.65
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## PCT/US97/Isi82  ## PCT/US97/Isi84  ## PCT/US97/I									
ATOM 1201 O GLY 1038 103.913 60.769 46.805 1.00 30.89 ATOM 1202 N LEU 1039 104.199 62.346 49.135 1.00 30.82 ATOM 1203 CA LEU 1039 104.550 62.670 50.582 1.00 34.94 ATOM 1205 CG LEU 1039 104.550 63.977 51.184 1.00 39.14 ATOM 1206 CD1 LEU 1039 105.127 65.038 51.079 1.00 41.57 ATOM 1207 CD2 LEU 1039 105.127 65.038 51.079 1.00 41.57 ATOM 1208 C LEU 1039 105.127 65.038 51.079 1.00 41.57 ATOM 1208 C LEU 1039 105.127 65.038 51.079 1.00 41.24 ATOM 1209 O LEU 1039 105.127 65.038 51.079 1.00 41.24 ATOM 1208 C LEU 1039 105.127 65.038 51.079 1.00 41.24 ATOM 1208 C LEU 1039 105.127 65.038 51.079 1.00 41.24 ATOM 1209 O LEU 1039 105.127 65.038 51.079 1.00 41.24 ATOM 1209 O LEU 1039 105.127 65.038 51.079 1.00 41.24 ATOM 1210 N LEU 1040 106.495 62.136 48.358 1.00 28.91 ATOM 1211 CA LEU 1040 106.495 62.136 48.358 1.00 28.91 ATOM 1212 CB LEU 1040 107.676 62.463 47.568 1.00 28.69 ATOM 1213 CG LEU 1040 110.213 62.413 47.959 1.00 30.89 ATOM 1213 CG LEU 1040 110.195 63.632 48.870 1.00 32.42 ATOM 1215 CD2 LEU 1040 110.195 63.632 48.870 1.00 32.42 ATOM 1216 C LEU 1040 110.195 63.632 48.870 1.00 30.89 ATOM 1217 CD LEU 1040 110.195 63.632 48.325 1.00 30.66 ATOM 1218 N GLY 1041 106.813 61.492 48.325 1.00 30.66 ATOM 1218 N GLY 1041 106.813 61.052 48.325 1.00 30.68 ATOM 1219 C G GLY 1041 105.894 61.062 45.695 1.00 30.89 ATOM 1221 C G GLY 1041 105.898 61.060 44.249 1.00 22.23 ATOM 1221 C G GLY 1041 105.898 61.605 44.249 1.00 23.28 ATOM 1222 C C GLY 1041 105.898 61.059 43.667 1.00 23.28 ATOM 1223 C A CYS 1042 104.788 62.050 44.449 1.00 23.53 ATOM 1223 C A CYS 1042 104.788 64.805 43.981 1.00 23.53 ATOM 1223 C A ILE 1043 105.878 66.101 44.350 1.00 23.54 ATOM 1223 C A ILE 1043 105.878 66.101 44.350 1.00 23.54 ATOM 1223 C A ILE 1043 105.878 66.571 48.681 1.00 23.53 ATOM 1224 C B CYS 1042 104.253 64.254 43.981 1.00 23.54 ATOM 1230 C B ILE 1043 105.875 66.802 43.981 1.00 23.54 ATOM 1230 C B ILE 1043 105.875 66.802 43.145 1.00 23.54 ATOM 1230 C B ILE 1043 105.875 66.802 43.941 1.00 23.04 ATOM 1230 C B ILE 1044 107.622 66.777 42.981 1.00 23.04 ATOM 12	WO 98/11134				, 125		PCT	/US97/16	182
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ATOM 1245       CA       THR       1045       105.779       63.968       39.340       1.00       22.82         ATOM 1246       CB       THR       1045       104.744       62.848       39.515       1.00       22.67         ATOM 1247       OG1       THR       1045       105.415       61.631       39.874       1.00       23.02         ATOM 1248       CG2       THR       1045       103.985       62.630       38.219       1.00       21.21         ATOM 1249       C       THR       1045       105.044       65.260       39.055       1.00       23.69         ATOM 1250       O       THR       1045       104.773       65.583       37.903       1.00       26.48         ATOM 1251       N       SER       1046       104.750       66.013       40.106       1.00       23.58									
ATOM 1247       OG1       THR       1045       105.415       61.631       39.874       1.00       23.02         ATOM 1248       CG2       THR       1045       103.985       62.630       38.219       1.00       21.21         ATOM 1249       C       THR       1045       105.044       65.260       39.055       1.00       23.69         ATOM 1250       O       THR       1045       104.773       65.583       37.903       1.00       26.48         ATOM 1251       N       SER       1046       104.750       66.013       40.106       1.00       23.58									
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ATOM 1252	CA	SER	1046	104.043	67.273	39.960	1.00	24.58
ATOM 1253	CB	SER	1046	103.691	67.852	41.331	1.00	25.34
ATOM 1254	OG	SER	1046	102.926	69.034	41.195	1.00	26.40
ATOM 1255	С	SER	1046	104.895	68.264	39.205	1.00	25.37
<b>ATOM 1256</b>	0	SER	1046	104.397	69.000	38.355	1.00	25.66
ATOM 1257	N	LEU	1047	106.183	68.281	39.521	1.00	25.73
ATOM 1258	CA	LEU	1047	107.094	69.204	38.873	1.00	26.65
ATOM 1259	CB	LEU	1047	108.316	69.450	39.759	1.00	26.72
ATOM 1260	CG	LEU	1047	107.985	69.811	41.217	1.00	26.90
ATOM 1261	CD1	LEU	1047	109.237	70.265	41.944	1.00	25.51
ATOM 1262	CD2	LEU	1047	106.920	70.890	41.284	1.00	26.82
ATOM 1263	С	LEU	1047	107.494	68.762	37.466	1.00	27.72
ATOM 1264	0	LEU	1047	107.461	69.561	36.535	1.00	29.56
ATOM 1265	N	THR	1048	107.806	67.483	37.288	1.00	28.48
ATOM 1266	CA	THR	1048	108.203	66.992	35.968	1.00	27.84
ATOM 1267	CB	THR	1048	108.815	65.591	36.046	1.00	26.24
ATOM 1268	OG1	THR	1048	107.818	64.666	36.495	1.00	28.13
ATOM 1269	CG2	THR	1048	110.002	65.580	37.001	1.00	23.61
ATOM 1270	C	THR	1048	107.022	66.936	35.008	1.00	28.29
ATOM 1271	Ö	THR	1048	107.167	67.168	33.802	1.00	28.96
ATOM 1272	N	GLY	1049	105.860	66.592	35.553	1.00	29.55
ATOM 1273	CA	GLY	1049	104.652	66.490	34.759	1.00	28.26
ATOM 1274	C	GLY	1049	104.582	65.197	33.975	1.00	28.82
ATOM 1275	Ö	GLY	1049	103.734	65.051	33.096	1.00	27.69
ATOM 1276	N	ARG	1050	105.447	64.242	34.304	1.00	29.15
ATOM 1277	CA	ARG	1050	105.464	62.968	33.595	1.00	30.31
ATOM 1278	CB	ARG	1050	106.852	62.709	33.002	1.00	32.91
ATOM 1279	CG	ARG	1050	106.864	61.866	31.728	1.00	39.62
ATOM 1280	CD	ARG	1050	108.295	61.494	31.320	1.00	46.14
ATOM 1281	NE	ARG	1050	108.577	60.054	31.442	1.00	52.84
ATOM 1282	CZ	ARG	1050	109.518	59.516	32.227	1.00	55.48
ATOM 1283	NH1	ARG	1050	110.290	60.283	32.990	1.00	58.74
ATOM 1284	NH2	ARG	1050	109.730	58.204	32.208	1.00	55.47
ATOM 1285	C	ARG	1050	105.085	61.875	34.586	1.00	29.07
ATOM 1286	Ŏ	ARG	1050	105.691	61.751	35.643	1.00	29.25
ATOM 1287	N	ASP	1051	104.040	61.123	34.267	1.00	28.54
ATOM 1288	CA	ASP	1051	103.572	60.054	35.133	1.00	27.21
ATOM 1289	CB	ASP	1051	102.214	60.412	35.729	1.00	28.72
ATOM 1290	CG	ASP	1051	101.694	59.357	36.684	1.00	27.51
ATOM 1291	OD1	ASP	1051	102.495	58.544	37.189	1.00	29.23
ATOM 1292	OD2	ASP	1051	100.478	59.354	36.941	1.00	27.37
ATOM 1293	C	ASP	1051	103.446	58.790	34.320	1.00	28.42
ATOM 1294	Ö	ASP	1051	102.531	58.658	33.513	1.00	29.82
ATOM 1295	Ň	LYS	1052	104.359	57.857	34.551	1.00	29.39
ATOM 1296	CA	LYS	1052	104.369	56.596	33.830	1.00	30.29
ATOM 1297	CB	LYS	1052	105.808	56.117	33.647	1.00	32.22
ATOM 1298	CG	LYS	1052	106.598	56.878	32.577	1.00	35.28
ATOM 1299	CD	LYS	1052	106.059	56.579	31.175	1.00	38.64
ATOM 1300	CE	LYS	1052	106.089	55.073	30.869	1.00	41.17
ATOM 1301	NZ	LYS	1052	105.403	54.714	29.588	1.00	42.32
ATOM 1302	C	LYS	1052	103.400	55.485	34.447	1.00	31.22
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ATOM 1303 O LYS 1052 103.356 54.424 33.841 1.00 33.64 ATOM 1305 CA ASN 1053 102.965 55.718 35.641 1.00 29.10 ATOM 1305 CB ASN 1053 102.965 55.718 35.641 1.00 25.64 ATOM 1307 CG ASN 1053 102.609 55.207 38.727 1.00 23.95 ATOM 1307 CG ASN 1053 102.609 55.207 38.727 1.00 23.95 ATOM 1309 ND2 ASN 1053 103.801 55.064 38.468 1.00 26.76 ATOM 1310 C ASN 1053 100.483 55.222 34.649 1.00 26.76 ATOM 1310 C ASN 1053 100.483 55.222 34.649 1.00 26.93 ATOM 1311 O ASN 1053 100.483 55.222 34.649 1.00 26.93 ATOM 1312 N ALA 1054 99.301 52.713 34.766 1.00 27.38 ATOM 1314 CB ALA 1054 99.301 52.713 34.766 1.00 27.38 ATOM 1315 C ALA 1054 99.055 53.203 35.427 1.00 29.92 ATOM 1315 C ALA 1054 99.056 53.200 35.487 1.00 25.64 ATOM 1316 O ALA 1054 99.056 53.200 35.487 1.00 25.64 ATOM 1317 N VAL 1055 97.009 53.474 34.716 1.00 25.81 ATOM 1319 CB VAL 1055 97.009 53.474 34.716 1.00 25.35 ATOM 1320 CG1 VAL 1055 93.954 55.731 35.052 1.00 22.04 ATOM 1320 CG1 VAL 1055 93.954 55.731 35.052 1.00 22.04 ATOM 1320 CG1 VAL 1055 93.954 55.731 35.052 1.00 22.04 ATOM 1320 CG1 VAL 1055 93.954 55.731 35.052 1.00 22.04 ATOM 1320 CG1 VAL 1055 94.661 52.003 34.677 1.00 25.14 ATOM 1322 C VAL 1055 94.661 52.003 35.269 1.00 22.35 ATOM 1322 C VAL 1055 94.661 52.003 35.269 1.00 22.35 ATOM 1322 C VAL 1055 94.661 52.003 36.377 1.00 25.14 ATOM 1325 CA GLU 1056 93.826 52.938 36.269 1.00 24.51 ATOM 1325 CA GLU 1056 93.826 52.938 36.269 1.00 24.51 ATOM 1320 CG1 VAL 1055 93.954 55.731 36.052 1.00 24.51 ATOM 1330 CE GLU 1056 93.826 52.938 36.269 1.00 24.51 ATOM 1330 CE GLU 1056 93.826 52.938 36.269 1.00 24.51 ATOM 1330 CE GLU 1056 93.826 52.938 36.269 1.00 24.51 ATOM 1330 CE GLU 1056 93.831 48.360 36.971 1.00 26.83 ATOM 1331 C GLU 1056 93.831 48.360 36.961 1.00 42.08 ATOM 1332 C GLU 1056 93.831 48.360 36.971 1.00 26.84 ATOM 1332 C GLU 1056 93.831 48.360 36.971 1.00 26.85 ATOM 1333 C GLU 1056 93.869 47.398 37.3737 1.00 26.85 ATOM 1334 CA GLU 1058 86.861 52.900 37.810 1.00 42.08 ATOM 1335 C GLU 1058 86.860 58.500 37.831 1.00 42.08 ATOM 1334 CA GLU 1058 86.860 58.500 37.831 1.00							<u>ئ</u>				
ATOM 1305 CA ASN 1053 102.123 54.718 36.301 1.00 26.26 ATOM 1306 CB ASN 1053 101.581 55.233 37.631 1.00 25.64 ATOM 1307 CG ASN 1053 102.609 55.207 38.727 1.00 23.95 ATOM 1308 OD1 ASN 1053 102.609 55.207 38.727 1.00 22.69 ATOM 1309 ND2 ASN 1053 102.615 55.363 39.963 1.00 26.87 ATOM 1310 C ASN 1053 100.942 54.380 35.427 1.00 26.87 ATOM 1311 O ASN 1053 100.942 54.380 35.427 1.00 26.87 ATOM 1312 N ALA 1054 100.457 53.147 35.545 1.00 27.38 ATOM 1313 CA ALA 1054 99.301 52.713 34.766 1.00 27.38 ATOM 1315 C ALA 1054 99.301 52.713 34.766 1.00 27.38 ATOM 1315 C ALA 1054 99.301 52.713 34.766 1.00 27.38 ATOM 1315 C ALA 1054 98.056 53.200 35.487 1.00 26.64 ATOM 1316 O ALA 1054 98.056 53.200 35.487 1.00 26.64 ATOM 1317 N VAL 1055 97.009 53.474 34.716 1.00 25.91 ATOM 1318 CA VAL 1055 95.761 53.978 35.269 1.00 24.92 ATOM 1319 CB VAL 1055 95.761 53.978 35.269 1.00 24.92 ATOM 1320 CG1 VAL 1055 96.262 55.216 34.476 1.00 22.35 ATOM 1321 CG2 VAL 1055 94.681 52.908 35.257 1.00 24.94 ATOM 1322 C VAL 1055 94.681 52.908 35.257 1.00 22.08 ATOM 1323 O VAL 1055 94.681 52.908 35.257 1.00 24.94 ATOM 1326 C G GLU 1056 93.873 49.772 36.406 1.00 25.14 ATOM 1326 C G GLU 1056 93.873 49.772 36.406 1.00 25.83 ATOM 1329 OE1 GLU 1056 93.863 49.772 37.631 1.00 25.83 ATOM 1332 O G GLU 1056 93.873 49.772 36.406 1.00 25.83 ATOM 1332 O G GLU 1056 93.831 48.50 36.961 1.00 42.08 ATOM 1333 C G GLU 1056 93.831 48.50 36.961 1.00 26.39 ATOM 1334 N GLU 1056 93.860 48.210 38.191 1.00 25.14 ATOM 1335 C G GLU 1056 93.831 48.50 36.961 1.00 26.39 ATOM 1336 C G GLU 1056 93.851 45.700 37.810 1.00 26.39 ATOM 1337 N GLU 1058 86.502 53.903 37.910 1.00 26.39 ATOM 1338 C G GLU 1056 93.851 45.700 37.810 1.00 26.39 ATOM 1339 C G GLU 1056 93.851 45.500 37.91 1.00 26.39 ATOM 1334 N GLU 1056 93.860 53.903 37.91 1.00 1.00 26.39 ATOM 1335 C G GLU 1056 93.851 45.700 37.810 1.00 26.39 ATOM 1336 C G GLU 1058 86.500 53.903 37.411 1.00 1.00 19.49 ATOM 1336 C G GLU 1058 86.500 53.903 37.411 1.00 1.00 19.49 ATOM 1336 C G GLU 1058 86.500 53.903 37.411 1.00 1.00 15.36 ATOM 1340 C G GLU 10	i.	ATOM 1303	Ŏ	LYS	1052		103.356	54.424	33.841	1.00	33.64
ATOM 1306 CB ASN 1053 101.581 55.233 37.631 1.00 25.84 ATOM 1308 OD1 ASN 1053 102.609 55.207 38.727 1.00 23.95 ATOM 1309 ND2 ASN 1053 100.3801 55.604 38.468 1.00 26.76 ATOM 1309 ND2 ASN 1053 100.461 55.363 39.963 1.00 22.69 ATOM 1311 O ASN 1053 100.483 55.222 34.649 1.00 26.93 ATOM 1312 N ALA 1054 100.457 53.147 35.545 1.00 27.34 ATOM 1313 CA ALA 1054 99.301 52.713 34.766 1.00 27.34 ATOM 1315 C ALA 1054 99.301 52.713 34.766 1.00 26.64 ATOM 1316 O ALA 1054 99.301 52.713 34.766 1.00 26.64 ATOM 1316 O ALA 1054 98.056 53.200 35.487 1.00 26.64 ATOM 1317 N VAL 1055 97.009 53.474 34.716 1.00 25.91 ATOM 1316 CA ALA 1054 98.049 53.329 36.720 1.00 25.91 ATOM 1316 CA ALA 1055 95.761 53.978 35.269 1.00 24.92 ATOM 1319 CB VAL 1055 95.762 55.216 34.476 1.00 22.35 ATOM 1320 CG1 VAL 1055 96.266 56.310 34.517 1.00 20.14 ATOM 1321 CG2 VAL 1055 96.266 56.310 34.517 1.00 20.14 ATOM 1322 C VAL 1055 94.681 52.098 35.257 1.00 22.08 ATOM 1322 C VAL 1055 94.681 52.098 35.257 1.00 22.08 ATOM 1323 O VAL 1055 94.681 52.098 36.257 1.00 24.94 ATOM 1322 C VAL 1055 94.681 52.098 36.257 1.00 24.94 ATOM 1325 CA GLU 1056 93.826 52.938 36.269 1.00 24.51 ATOM 1326 CB GLU 1056 93.826 52.938 36.269 1.00 24.51 ATOM 1328 CD GLU 1056 93.826 52.938 36.269 1.00 24.51 ATOM 1329 CE1 GLU 1056 93.821 49.772 36.406 1.00 26.83 ATOM 1329 CE1 GLU 1056 93.831 49.772 36.406 1.00 26.83 ATOM 1331 C GLU 1056 93.831 49.772 36.406 1.00 26.83 ATOM 1331 C GLU 1056 93.831 49.772 36.406 1.00 26.83 ATOM 1331 C GLU 1056 93.839 49.772 36.406 1.00 26.83 ATOM 1333 C GLU 1056 93.859 47.938 36.159 1.00 24.57 ATOM 1333 C GLU 1056 93.859 47.938 36.159 1.00 24.57 ATOM 1333 C GLU 1056 93.859 47.938 36.159 1.00 24.57 ATOM 1333 C GLU 1056 93.859 47.938 36.159 1.00 24.57 ATOM 1333 C GLU 1056 93.859 47.938 36.159 1.00 24.57 ATOM 1333 C GLU 1056 93.859 47.938 36.159 1.00 24.57 ATOM 1333 C GLU 1058 86.649 55.239 37.141 1.00 16.31 ATOM 1334 C G GLU 1058 86.649 55.239 37.141 1.00 16.31 ATOM 1334 C G GLU 1058 86.649 55.239 37.141 1.00 16.31 ATOM 1334 C G GLU 1058 86.649 55.239 37.067 1.00 19.		ATOM 1304	N	ASN	1053		102.965	55.718	35.641	1.00	29.10
ATOM 1307 CG ASN 1053 103.801 55.207 38.727 1.00 23.95 ATOM 1308 DD1 ASN 1053 103.801 55.363 38.468 1.00 26.76 ATOM 1310 C ASN 1053 100.942 54.380 35.427 1.00 26.87 ATOM 1311 C ASN 1053 100.942 54.380 35.427 1.00 26.93 ATOM 1312 N ALA 1054 100.457 53.147 35.545 1.00 27.34 ATOM 1313 CA ALA 1054 99.307 52.713 34.766 1.00 27.34 ATOM 1314 CB ALA 1054 99.307 52.713 34.766 1.00 27.34 ATOM 1315 C ALA 1054 99.275 51.196 34.623 1.00 28.71 ATOM 1316 C ALA 1054 99.275 51.196 34.623 1.00 28.71 ATOM 1317 N VAL 1055 97.009 53.474 34.716 1.00 25.91 ATOM 1318 CA VAL 1055 95.761 53.200 35.487 1.00 26.71 ATOM 1318 CA VAL 1055 95.761 53.978 35.269 1.00 24.92 ATOM 1319 CB VAL 1055 95.761 53.978 35.269 1.00 24.92 ATOM 1320 CG1 VAL 1055 96.296 56.310 34.517 1.00 22.08 ATOM 1321 CG2 VAL 1055 94.681 52.008 34.367 1.00 22.08 ATOM 1322 C VAL 1055 94.681 52.008 36.327 1.00 24.94 ATOM 1322 C VAL 1055 94.681 52.008 36.377 1.00 25.91 ATOM 1323 C CG1 VAL 1055 94.681 52.008 36.377 1.00 25.82 ATOM 1326 CB GLU 1056 93.873 49.772 36.406 1.00 25.82 ATOM 1326 CB GLU 1056 93.873 49.772 36.406 1.00 25.82 ATOM 1329 CE GLU 1056 93.831 48.360 36.269 1.00 25.14 ATOM 1328 CD GLU 1056 93.831 48.360 36.961 1.00 26.83 ATOM 1328 CD GLU 1056 93.831 48.360 36.961 1.00 26.83 ATOM 1332 CD GLU 1056 93.831 48.360 36.961 1.00 26.582 ATOM 1331 C GLU 1056 93.831 48.360 36.961 1.00 26.57 ATOM 1332 CD GLU 1056 93.831 48.360 36.961 1.00 26.57 ATOM 1331 C GLU 1056 91.856 53.700 37.810 1.00 26.57 ATOM 1331 C GLU 1056 91.856 53.700 37.810 1.00 26.582 ATOM 1333 N GLY 1057 89.293 52.773 37.737 1.00 20.85 ATOM 1334 CA GLU 1058 85.026 54.871 37.479 1.00 19.15 ATOM 1334 CA GLU 1058 85.026 54.871 37.479 1.00 19.15 ATOM 1334 CA GLU 1058 85.026 54.871 37.479 1.00 19.15 ATOM 1334 CA GLU 1058 85.026 54.871 37.479 1.00 15.32 ATOM 1334 CA GLU 1058 85.026 54.871 37.479 1.00 15.32 ATOM 1334 CA GLU 1058 85.026 54.871 37.479 1.00 15.32 ATOM 1334 CA GLU 1058 86.600 57.623 37.241 1.00 15.32 ATOM 1334 CA GLU 1058 85.026 54.871 37.479 1.00 15.32 ATOM 1340 CB GLU 1058 86.600 57.623 37.241 1.00					1053		102.123	54.718	36.301	1.00	26.26
ATOM 1308 OD1 ASN 1053 103.801 55.064 38.468 1.00 26.76 ATOM 1301 C ASN 1053 100.942 54.380 39.963 1.00 26.87 ATOM 1311 O ASN 1053 100.483 55.222 34.649 1.00 26.93 ATOM 1313 CA ALA 1054 99.301 52.713 35.457 1.00 27.34 ATOM 1314 CB ALA 1054 99.301 52.713 34.766 1.00 27.38 ATOM 1315 C ALA 1054 99.301 52.713 34.766 1.00 27.38 ATOM 1316 C ALA 1054 99.301 52.713 34.766 1.00 28.93 ATOM 1317 N VAL 1055 98.056 53.200 35.487 1.00 26.64 ATOM 1317 N VAL 1055 97.009 53.474 34.716 1.00 25.91 ATOM 1318 CA VAL 1055 95.761 53.978 35.269 1.00 24.92 ATOM 1319 CB VAL 1055 95.761 53.978 35.269 1.00 22.08 ATOM 1320 CG1 VAL 1055 96.262 55.216 34.476 1.00 22.35 ATOM 1321 CG2 VAL 1055 96.296 56.310 34.517 1.00 22.14 ATOM 1322 C VAL 1055 94.681 52.908 35.257 1.00 24.94 ATOM 1323 C VAL 1055 94.681 52.908 35.269 1.00 24.94 ATOM 1323 C VAL 1055 94.681 52.908 35.269 1.00 24.94 ATOM 1323 C VAL 1055 94.681 52.908 35.265 1.00 24.94 ATOM 1323 C VAL 1055 94.681 52.908 35.265 1.00 24.94 ATOM 1323 C C VAL 1056 93.826 52.938 66.269 1.00 24.51 ATOM 1325 CA GLU 1056 93.826 52.938 66.269 1.00 24.51 ATOM 1326 CB GLU 1056 93.720 52.008 36.377 1.00 24.94 ATOM 1329 C G GLU 1056 93.720 52.008 36.377 1.00 25.82 ATOM 1327 CG GLU 1056 93.826 53.90 36.406 1.00 42.08 ATOM 1329 CG GLU 1056 93.827 52.908 36.599 1.00 28.83 ATOM 1327 CG GLU 1056 93.827 52.908 36.599 1.00 28.83 ATOM 1331 C GLU 1056 93.899 47.988 36.159 1.00 46.03 ATOM 1330 CG GLU 1056 93.899 47.988 36.159 1.00 46.03 ATOM 1331 C GLU 1056 93.899 52.189 37.006 1.00 26.04 ATOM 1330 CG GLU 1056 93.899 52.189 37.006 1.00 26.04 ATOM 1330 CG GLU 1056 93.859 52.189 37.006 1.00 26.05 ATOM 1330 CG GLU 1056 93.859 52.189 37.006 1.00 26.05 ATOM 1330 CG GLU 1056 93.859 52.189 37.006 1.00 26.05 ATOM 1330 CG GLU 1058 85.506 53.700 37.810 1.00 26.05 ATOM 1331 C GLU 1056 93.859 52.189 37.006 1.00 26.05 ATOM 1334 CA GLU 1058 85.506 53.700 37.810 1.00 26.05 ATOM 1334 CA GLU 1058 85.506 53.700 37.810 1.00 10.00 20.85 ATOM 1334 CA GLU 1058 85.506 53.700 37.810 1.00 10.00 20.85 ATOM 1345 C G GLU 1058 85.506 53.700 37.810		ATOM 1306	CB	ASN	1053		101.581	55.233	37.631	1.00	25.64
ATOM 1309 ND2 ASN 1053 100.942 54.380 35.427 1.00 26.87 ATOM 1311 O ASN 1053 100.942 54.380 35.427 1.00 26.87 ATOM 1312 N ALA 1054 100.483 55.222 34.649 1.00 26.93 ATOM 1312 CA ALA 1054 99.301 52.713 34.766 1.00 27.34 ATOM 1315 C ALA 1054 99.275 51.196 34.623 1.00 29.92 ATOM 1315 C ALA 1054 98.056 53.200 35.487 1.00 26.71 ATOM 1315 C ALA 1054 98.056 53.200 35.487 1.00 26.71 ATOM 1316 CA ALA 1054 98.056 53.200 35.487 1.00 26.71 ATOM 1317 N VAL 1055 97.009 53.474 34.716 1.00 25.91 ATOM 1318 CA VAL 1055 95.761 53.978 35.269 1.00 24.92 ATOM 1319 CB VAL 1055 95.761 53.978 35.269 1.00 24.92 ATOM 1320 CG1 VAL 1055 96.296 56.310 34.517 1.00 22.08 ATOM 1321 CG2 VAL 1055 94.681 52.098 35.257 1.00 24.94 ATOM 1322 C VAL 1055 94.681 52.098 35.257 1.00 24.94 ATOM 1323 C VAL 1055 94.681 52.098 36.269 1.00 24.91 ATOM 1324 N GLU 1056 93.826 52.938 36.269 1.00 24.91 ATOM 1326 CB GLU 1056 93.826 52.938 36.269 1.00 25.14 ATOM 1326 CB GLU 1056 93.826 52.938 36.269 1.00 25.14 ATOM 1327 CG GLU 1056 93.826 52.938 36.269 1.00 25.84 ATOM 1328 CD GLU 1056 93.826 52.938 36.269 1.00 25.84 ATOM 1329 CE GLU 1056 93.826 52.938 36.269 1.00 25.84 ATOM 1329 CE GLU 1056 93.893 49.772 36.406 1.00 36.03 ATOM 1329 CE GLU 1056 93.893 49.772 36.406 1.00 36.03 ATOM 1329 CE GLU 1056 93.893 49.772 36.406 1.00 36.03 ATOM 1330 CE GLU 1056 93.893 47.398 36.159 1.00 40.357 ATOM 1332 C GLU 1056 93.893 47.398 36.159 1.00 40.357 ATOM 1333 N GLY 1057 89.293 52.773 37.737 1.00 20.85 ATOM 1333 C GLY 1057 89.293 52.773 37.737 1.00 20.85 ATOM 1335 C GLY 1057 89.293 52.773 37.737 1.00 20.85 ATOM 1336 C GLU 1058 85.591 52.393 37.637 1.00 19.49 ATOM 1336 C GLU 1058 85.591 52.393 37.637 1.00 19.49 ATOM 1336 C GLU 1058 85.591 52.393 37.637 1.00 15.32 ATOM 1340 CG GLU 1058 85.591 52.393 37.637 1.00 15.32 ATOM 1340 CG GLU 1058 85.591 52.393 37.637 1.00 15.32 ATOM 1340 CG GLU 1058 85.591 52.393 37.637 1.00 15.32 ATOM 1340 CG GLU 1058 85.591 52.993 37.637 1.00 15.32 ATOM 1340 CG GLU 1058 85.591 52.993 37.441 1.00 15.32 ATOM 1340 CG GLU 1058 86.610 57.623 37.238 1.00 15.32 AT		ATOM 1307	CG	ASN	1053		102.609	55.207	38.727	1.00	23.95
ATOM 1310 C ASN 1053 100.942 54.380 35.427 1.00 26.87 ATOM 1311 O ASN 1053 100.483 55.222 34.649 1.00 26.87 ATOM 1312 N ALA 1054 100.457 53.147 35.545 1.00 27.38 ATOM 1313 CA ALA 1054 99.301 52.713 34.766 1.00 27.38 ATOM 1315 C ALA 1054 99.301 52.713 34.766 1.00 27.38 ATOM 1316 O ALA 1054 99.80.56 53.200 35.487 1.00 26.71 ATOM 1316 O ALA 1054 98.056 53.200 35.487 1.00 26.71 ATOM 1317 N VAL 1055 97.009 53.447 34.716 1.00 25.91 ATOM 1318 CA VAL 1055 97.009 53.447 34.716 1.00 25.91 ATOM 1319 CB VAL 1055 95.761 53.978 35.269 1.00 24.92 ATOM 1320 CG1 VAL 1055 95.262 55.216 34.476 1.00 22.35 ATOM 1320 CG1 VAL 1055 93.954 55.731 35.052 1.00 24.92 ATOM 1322 C VAL 1055 96.296 56.310 34.577 1.00 20.14 ATOM 1322 C VAL 1055 94.641 52.008 35.257 1.00 24.91 ATOM 1324 N GLU 1056 93.826 52.938 36.289 1.00 25.14 ATOM 1325 CA GLU 1056 93.826 52.938 36.289 1.00 25.14 ATOM 1326 CB GLU 1056 93.826 52.938 36.289 1.00 25.88 ATOM 1329 CB GLU 1056 93.826 52.938 36.289 1.00 25.88 ATOM 1329 CB GLU 1056 93.826 52.938 36.289 1.00 25.84 ATOM 1329 CB GLU 1056 93.826 52.938 36.289 1.00 25.84 ATOM 1329 CB GLU 1056 93.831 48.360 36.961 1.00 43.57 ATOM 1330 CB GLU 1056 93.831 48.360 36.961 1.00 43.57 ATOM 1331 C GLU 1056 93.831 48.360 36.961 1.00 43.57 ATOM 1331 C GLU 1056 93.831 48.360 36.961 1.00 42.55 ATOM 1330 CB GLU 1056 93.831 48.360 36.961 1.00 42.55 ATOM 1331 C GLU 1056 93.831 48.360 36.961 1.00 43.57 ATOM 1331 C GLU 1056 93.840 48.210 38.991 1.00 46.03 ATOM 1333 C GLU 1056 93.840 48.210 38.991 1.00 46.03 ATOM 1333 C GLU 1056 93.840 48.210 38.991 1.00 46.03 ATOM 1334 CA GLY 1057 89.293 52.773 37.371 1.00 20.29 ATOM 1334 CA GLY 1057 89.293 52.773 37.371 1.00 20.85 ATOM 1334 CA GLY 1057 89.293 52.773 37.371 1.00 20.85 ATOM 1334 CA GLY 1057 89.293 52.773 37.374 1.00 15.32 ATOM 1334 CA GLY 1057 89.293 52.773 37.374 1.00 15.32 ATOM 1334 CA GLY 1057 89.293 52.773 37.374 1.00 15.32 ATOM 1334 CA GLY 1058 85.505 53.902 37.067 1.00 15.32 ATOM 1334 CA GLY 1058 85.505 53.902 37.067 1.00 15.32 ATOM 1334 CA GLY 1058 86.813 57.684 41.136 1.00 14.78 ATO		ATOM 1308	OD1	ASN	1053	,	103.801	55.064	38.468	1.00	26.76
ATOM 1311 O ASN 1053 100.483 55.222 34.649 1.00 26.93 ATOM 1312 N ALA 1054 100.457 53.147 35.545 1.00 27.38 ATOM 1313 CA ALA 1054 99.301 52.713 34.766 1.00 27.38 ATOM 1314 CB ALA 1054 99.301 52.713 34.766 1.00 29.92 ATOM 1315 C ALA 1054 99.8056 53.200 35.487 1.00 26.64 ATOM 1317 N VAL 1055 97.00§ 53.474 34.716 1.00 25.91 ATOM 1317 N VAL 1055 97.00§ 53.474 34.716 1.00 25.91 ATOM 1319 CB VAL 1055 95.761 53.978 35.269 1.00 24.92 ATOM 1319 CB VAL 1055 95.262 55.216 34.476 1.00 22.35 ATOM 1320 CG1 VAL 1055 95.262 55.216 34.476 1.00 22.35 ATOM 1320 CG2 VAL 1055 96.296 56.310 34.517 1.00 20.14 ATOM 1321 CG2 VAL 1055 96.296 56.310 34.517 1.00 20.14 ATOM 1322 C VAL 1055 94.681 52.908 35.257 1.00 24.94 ATOM 1323 O VAL 1055 94.681 52.908 35.257 1.00 24.94 ATOM 1323 O VAL 1055 94.681 52.908 35.257 1.00 24.94 ATOM 1325 CA GLU 1056 93.826 52.938 36.269 1.00 24.51 ATOM 1326 CB GLU 1056 93.123 50.767 37.163 1.00 25.82 ATOM 1326 CB GLU 1056 93.123 50.767 37.163 1.00 26.83 ATOM 1328 CD GLU 1056 93.891 48.360 36.981 1.00 26.39 ATOM 1329 OE1 GLU 1056 93.891 48.360 36.981 1.00 24.57 ATOM 1330 OE2 GLU 1056 93.891 48.360 36.991 1.00 43.57 ATOM 1330 OE2 GLU 1056 93.891 48.360 36.991 1.00 43.57 ATOM 1330 OE2 GLU 1056 93.891 48.360 36.991 1.00 24.51 ATOM 1330 OE2 GLU 1056 93.891 48.360 36.991 1.00 43.57 ATOM 1333 N GLY 1057 89.939 52.189 37.006 1.00 22.01 ATOM 1331 C GLU 1056 93.891 48.360 36.159 1.00 42.08 ATOM 1333 N GLY 1057 89.939 52.189 37.006 1.00 22.01 ATOM 1330 OE GLU 1056 89.891 52.773 37.131 1.00 24.57 ATOM 1330 CB GLU 1058 86.479 55.239 37.141 1.00 16.31 ATOM 1334 CA GLY 1057 89.939 52.189 37.006 1.00 22.01 ATOM 1334 CA GLY 1057 89.039 52.189 37.006 1.00 19.15 ATOM 1340 CG GLU 1058 85.591 52.992 37.373 7.100 10.92 ATOM 1341 CD GLU 1058 85.006 53.003 37.238 1.00 18.10 ATOM 1340 CG GLU 1058 85.591 52.192 38.377 1.00 15.36 ATOM 1341 CD GLU 1058 86.610 57.623 37.244 1.00 15.36 ATOM 1344 CG GLU 1058 86.610 57.623 37.244 1.00 15.36 ATOM 1344 CG GLU 1058 86.610 57.623 37.244 1.00 15.36 ATOM 1344 CG GLU 1058 86.610 57.623 37.244 1.00		ATOM 1309	ND2	ASN	1053		102.161	55.363	39.963	1.00	22.69
ATOM 1311 O ASN 1053 100.483 55.222 34.649 1.00 26.93 ATOM 1312 N ALA 1054 100.457 53.147 35.545 1.00 27.34 ATOM 1313 CA ALA 1054 99.301 52.713 34.766 1.00 27.38 ATOM 1314 CB ALA 1054 99.301 52.713 34.766 1.00 27.38 ATOM 1315 C ALA 1054 99.505 53.200 35.467 1.00 26.64 ATOM 1316 O ALA 1054 98.056 53.200 35.467 1.00 26.64 ATOM 1317 N VAL 1055 97.009 53.474 34.716 1.00 25.91 ATOM 1318 CA VAL 1055 97.009 53.474 34.716 1.00 25.91 ATOM 1319 CB VAL 1055 95.761 53.978 35.269 1.00 22.08 ATOM 1320 CG1 VAL 1055 93.954 55.731 35.052 1.00 22.08 ATOM 1320 CG2 VAL 1055 93.954 55.731 35.052 1.00 22.08 ATOM 1321 CG2 VAL 1055 94.681 52.908 35.257 1.00 24.94 ATOM 1322 C VAL 1055 94.681 52.908 35.257 1.00 24.94 ATOM 1323 O VAL 1055 94.681 52.908 35.257 1.00 24.94 ATOM 1324 N GLU 1056 93.826 52.938 36.269 1.00 24.94 ATOM 1325 CA GLU 1056 93.123 50.767 37.163 1.00 24.51 ATOM 1326 CB GLU 1056 93.123 50.767 37.163 1.00 28.83 ATOM 1327 CG GLU 1056 93.831 48.360 36.991 1.00 25.82 ATOM 1328 CD GLU 1056 93.891 49.772 36.406 1.00 36.38 ATOM 1329 OE1 GLU 1056 93.891 48.360 36.991 1.00 42.08 ATOM 1330 OE2 GLU 1056 93.891 48.360 36.991 1.00 42.08 ATOM 1331 C GLU 1056 93.891 48.360 36.991 1.00 42.08 ATOM 1330 OE2 GLU 1056 93.893 37.395 36.159 1.00 42.08 ATOM 1331 C GLU 1056 93.891 48.360 36.991 1.00 24.57 ATOM 1330 OE2 GLU 1056 93.891 48.360 36.991 1.00 24.57 ATOM 1331 C GLU 1056 93.891 48.360 36.991 1.00 42.08 ATOM 1332 O GLU 1056 93.891 48.360 36.991 1.00 42.08 ATOM 1333 C GLU 1056 93.893 53.793 37.191 1.00 24.57 ATOM 1330 OE2 GLU 1056 93.893 36.40 48.210 38.191 1.00 43.57 ATOM 1330 CE GLU 1056 93.893 53.992 37.006 1.00 22.01 ATOM 1331 C GLU 1056 93.891 53.003 37.006 1.00 22.01 ATOM 1334 CA GLY 1057 89.039 52.189 37.006 1.00 22.01 ATOM 1335 C GLU 1058 86.600 56.661 37.803 1.00 15.32 ATOM 1336 CA GLU 1058 86.600 56.661 37.803 1.00 15.32 ATOM 1341 CD GLU 1058 86.600 57.623 37.224 1.00 15.36 ATOM 1344 C GLU 1058 86.600 56.661 37.803 1.00 15.32 ATOM 1345 O GLU 1058 86.600 57.623 37.234 1.00 15.32 ATOM 1346 N VAL 1059 86.892 59.015 41.839 1.00 10		ATOM 1310	С	ASN	1053		100.942	54.380	35.427	1.00	26.87
ATOM 1312 N ALA 1054 99.301 52.713 34.766 1.00 27.34 ATOM 1313 CA ALA 1054 99.301 52.713 34.766 1.00 27.34 ATOM 1314 CB ALA 1054 99.301 52.713 34.766 1.00 27.34 ATOM 1315 C ALA 1054 98.056 53.200 35.487 1.00 26.71 ATOM 1316 O ALA 1054 98.056 53.200 35.487 1.00 26.71 ATOM 1317 N VAL 1055 97.006 53.474 34.716 1.00 25.91 ATOM 1318 CA VAL 1055 97.006 53.474 34.716 1.00 25.91 ATOM 1319 CB VAL 1055 95.761 53.978 35.269 1.00 24.92 ATOM 1320 CG1 VAL 1055 95.262 55.216 34.476 1.00 22.35 ATOM 1320 CG1 VAL 1055 96.296 56.310 34.517 1.00 20.14 ATOM 1321 CG2 VAL 1055 96.296 56.310 34.517 1.00 20.14 ATOM 1322 C VAL 1055 94.681 52.908 35.257 1.00 24.91 ATOM 1322 C VAL 1055 94.681 52.908 35.257 1.00 24.91 ATOM 1323 O VAL 1055 94.681 52.908 36.299 1.00 25.14 ATOM 1325 CA GLU 1056 93.826 52.938 36.299 1.00 25.14 ATOM 1326 CB GLU 1056 93.826 52.938 36.299 1.00 25.82 ATOM 1326 CB GLU 1056 93.123 50.767 37.163 1.00 25.82 ATOM 1328 CD GLU 1056 93.973 49.772 36.406 1.00 36.03 ATOM 1329 OE1 GLU 1056 93.831 48.360 36.961 1.00 42.08 ATOM 1331 C GLU 1056 93.894 73.98 36.159 1.00 42.08 ATOM 1331 C GLU 1056 93.893 74.796 36.159 1.00 42.08 ATOM 1331 C GLU 1056 91.614 52.702 37.131 1.00 24.57 ATOM 1333 O GE2 GLU 1056 91.614 52.702 37.131 1.00 24.57 ATOM 1333 C GLU 1056 91.614 52.702 37.131 1.00 24.57 ATOM 1333 C GLU 1056 91.614 52.702 37.131 1.00 24.57 ATOM 1333 C GLU 1056 91.614 52.702 37.131 1.00 24.57 ATOM 1333 C GLU 1056 91.614 52.702 37.131 1.00 24.57 ATOM 1333 C GLU 1056 91.614 52.702 37.131 1.00 19.23 ATOM 1337 N GLU 1058 85.595 52.192 38.377 1.00 19.49 ATOM 1337 N GLU 1058 85.595 52.393 37.441 1.00 15.36 ATOM 1340 CG GLU 1058 86.610 57.623 37.238 1.00 15.36 ATOM 1341 CD GLU 1058 86.610 57.623 37.238 1.00 15.36 ATOM 1340 CG GLU 1058 86.610 57.623 37.238 1.00 15.32 ATOM 1341 CD GLU 1058 86.610 57.623 37.244 1.00 15.32 ATOM 1344 C G GLU 1058 86.610 57.623 37.244 1.00 15.32 ATOM 1345 C GLU 1058 86.610 57.623 37.244 1.00 15.32 ATOM 1346 C G GLU 1058 86.610 57.623 37.244 1.00 15.32 ATOM 1346 C G GLU 1058 86.610 57.623 37.244 1.00 15.32 ATO		ATOM 1311	0	ASN	1053			55.222	34.649	1.00	26.93
ATOM 1313 CA ALA 1054 99.301 52.713 34.766 1.00 27.38 ATOM 1314 CB ALA 1054 99.275 51.196 34.623 1.00 29.92 ATOM 1315 C ALA 1054 98.056 53.200 35.487 1.00 26.61 ATOM 1316 O ALA 1055 97.009 53.474 34.716 1.00 25.91 ATOM 1317 N VAL 1055 97.009 53.474 34.716 1.00 25.91 ATOM 1318 CA VAL 1055 95.761 53.978 35.269 1.00 24.92 ATOM 1319 CB VAL 1055 95.761 53.978 35.269 1.00 22.08 ATOM 1320 CG1 VAL 1055 93.954 55.731 35.052 1.00 22.08 ATOM 1321 CG2 VAL 1055 94.681 52.908 35.257 1.00 22.494 ATOM 1322 C VAL 1055 94.681 52.908 35.257 1.00 24.94 ATOM 1323 O VAL 1055 94.681 52.908 35.257 1.00 24.94 ATOM 1324 N GLU 1056 93.826 52.938 36.269 1.00 24.51 ATOM 1325 CA GLU 1056 93.826 52.938 36.269 1.00 25.14 ATOM 1326 CB GLU 1056 93.123 50.767 37.163 1.00 28.83 ATOM 1327 CG GLU 1056 93.831 48.360 36.961 1.00 28.83 ATOM 1328 CD GLU 1056 93.831 48.360 36.961 1.00 42.08 ATOM 1330 OE2 GLU 1056 93.834 48.360 36.961 1.00 42.08 ATOM 1331 C GLU 1056 93.889 47.398 36.159 1.00 42.08 ATOM 1332 O GLU 1056 93.899 37.37.311 1.00 24.57 ATOM 1332 O GLU 1056 93.899 37.397 37.373 1.00 24.57 ATOM 1333 N GLY 1057 89.293 52.773 37.373 1.00 26.39 ATOM 1334 CA GLY 1057 89.293 52.773 37.373 1.00 26.39 ATOM 1335 C GLY 1057 89.293 52.773 37.373 1.00 26.39 ATOM 1336 CA GLU 1058 85.026 54.871 37.479 1.00 16.31 ATOM 1337 N GLU 1058 85.026 54.871 37.479 1.00 15.36 ATOM 1340 CG GLU 1058 85.026 54.871 37.479 1.00 15.36 ATOM 1340 CG GLU 1058 85.026 54.871 37.479 1.00 15.36 ATOM 1341 CD GLU 1058 85.026 54.871 37.479 1.00 15.32 ATOM 1340 CG GLU 1058 85.026 54.871 37.893 1.00 16.32 ATOM 1341 CD GLU 1058 85.010 52.03 37.238 1.00 18.10 ATOM 1344 C GLU 1058 86.610 57.623 37.224 1.00 15.36 ATOM 1344 C GLU 1058 86.610 57.623 37.224 1.00 15.36 ATOM 1345 C GLU 1058 86.610 57.623 37.224 1.00 15.36 ATOM 1340 CG GLU 1058 86.610 57.623 37.224 1.00 15.32 ATOM 1341 CD GLU 1058 86.610 57.623 37.224 1.00 15.32 ATOM 1343 OE2 GLU 1058 86.610 57.623 37.224 1.00 15.32 ATOM 1345 C GLU 1058 86.610 57.623 37.224 1.00 15.32 ATOM 1345 C GLU 1058 86.610 57.623 37.224 1.00 15.32 ATOM 1345 C		ATOM 1312	N	ALA	1054		100.457	53.147	35.545	1.00	27.34
ATOM 1314 CB ALA 1054 99.275 51.196 34.623 1.00 29.92 ATOM 1315 C ALA 1054 98.056 53.200 35.487 1.00 26.71 ATOM 1316 O ALA 1054 98.056 53.200 35.487 1.00 26.71 ATOM 1317 N VAL 1055 97.009 53.474 34.716 1.00 25.91 ATOM 1318 CA VAL 1055 95.761 53.978 35.269 1.00 24.92 ATOM 1319 CB VAL 1055 95.262 55.216 34.476 1.00 22.35 ATOM 1320 CG1 VAL 1055 93.954 55.731 35.052 1.00 22.08 ATOM 1321 CG2 VAL 1055 94.681 52.908 35.257 1.00 24.94 ATOM 1322 C VAL 1055 94.681 52.908 35.257 1.00 24.94 ATOM 1323 O VAL 1055 94.681 52.908 35.257 1.00 24.94 ATOM 1324 N GLU 1056 93.826 52.938 36.269 1.00 24.94 ATOM 1325 CA GLU 1056 93.826 52.938 36.269 1.00 25.14 ATOM 1326 CB GLU 1056 93.826 52.938 36.269 1.00 25.14 ATOM 1327 CG GLU 1056 93.827 39.720 52.008 36.377 1.00 25.82 ATOM 1328 CD GLU 1056 93.831 48.360 36.961 1.00 28.83 ATOM 1329 OE1 GLU 1056 93.831 48.360 36.961 1.00 42.08 ATOM 1330 OE2 GLU 1056 93.831 48.360 36.961 1.00 42.08 ATOM 1331 C GLU 1056 91.614 52.702 37.131 1.00 24.57 ATOM 1331 C GLU 1056 91.614 52.702 37.131 1.00 24.57 ATOM 1332 O GLU 1056 91.654 53.700 37.810 1.00 26.39 ATOM 1333 N GLY 1057 90.399 52.189 37.006 1.00 22.05 ATOM 1334 CA GLY 1057 88.552 53.902 37.067 1.00 19.49 ATOM 1335 C GLY 1057 88.552 53.902 37.067 1.00 19.45 ATOM 1336 O GLY 1057 88.552 53.902 37.067 1.00 19.45 ATOM 1337 N GLU 1058 86.479 55.239 37.141 1.00 19.23 ATOM 1338 CA GLU 1058 86.479 55.239 37.141 1.00 19.23 ATOM 1340 CG GLU 1058 86.610 57.623 37.224 1.00 15.36 ATOM 1341 CD GLU 1058 86.610 57.661 39.818 1.00 15.32 ATOM 1342 OE1 GLU 1058 86.600 57.661 39.818 1.00 15.32 ATOM 1343 CE GLU 1058 86.600 57.661 39.818 1.00 15.32 ATOM 1346 N VAL 1059 87.629 56.667 39.084 1.00 12.63 ATOM 1346 CB VAL 1059 87.629 56.667 39.084 1.00 12.63 ATOM 1340 CG GLU 1058 86.610 57.661 39.818 1.00 12.63 ATOM 1340 CG GLU 1058 86.610 57.661 39.818 1.00 12.63 ATOM 1340 CG GLU 1058 86.610 57.661 39.818 1.00 12.63 ATOM 1340 CG GLU 1058 86.610 57.661 39.818 1.00 12.63 ATOM 1340 CG GLU 1058 86.610 57.661 39.818 1.00 12.63 ATOM 1340 CG GLU 1058 86.610 57.661 39.818 1.00 12		ATOM 1313	CA	ALA			, in				27.38
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		2005 January (1902)					Section 20	
WO 98/11134				villa.		PCT	/US97/16	182
		Ä	FI	المرازة GURE 3 (CONT.	)			
ATOM 1354	CA	GLN	1060	91.212	58.894	40.140	1.00	16.47
ATOM 1355	CB	GLN	1060	91.936	59.556	38.967	1.00	15.66
ATOM 1356	CG	GLN	1060	91.816	58.816	37.670	1.00	17.53
ATOM 1357	CD	GLN	1060	92.215	57.361	37.809	1.00	20.63
ATOM 1358	OE1	GLN	1060	93.215	57.037	38.448	1.00	22.69
ATOM 1359	NE2	GLN	1060	91.424	56.474	37.229	1.00	22.24
ATOM 1360 ATOM 1361	CO	GLN GLN	1060 1060	91.367 90.702	59.775 60.801	41.372 41.496	1.00 1.00	18.64 21.76
ATOM 1361	N	ILE	1061	90.702 92.175	59.345	42.326	1.00	19.32
ATOM 1362	CA	ILE	1061	92.410	60.171	43.499	1.00	19.78
ATOM 1364	CB	ILE	1061	92.838	59.329	44.718	1.00	18.89
ATOM 1365	CG2	ILE	1061	93.064	60.225	45.926	1.00	18.02
ATOM 1366	CG1	ILE	1061	91.759	58.289	45.033	1.00	16.75
ATOM 1367	CD1	ILE	1061	92.138	57.352	46.120	1.00	14.36
ATOM 1368	C	ILE ILE	1061	93.552	61.068	43.030	1.00	21.51
ATOM 1369 ATOM 1370	0 N	VAL	1061 1062	94.615 93.305	60.579 62.370	42.626 42.979	1.00 1.00	22.71 21.91
ATOM 1371	CA	VAL	1062	94.321	63.294	42.515	1.00	19.92
ATOM 1372	СВ	VAL	1062	93.858	64.075	41.278	1.00	18.17
ATOM 1373	CG1	VAL	1062	93.500	63.117	40.166	1.00	15.34
ATOM 1374	CG2	VÄL	1062	92.692	64.977	41.622	1.00	15.73
ATOM 1375	C	VÄL	1062	94.776	64.252	43.588	1.00	21.02
ATOM 1376	0	VAL	1062	94.099	64.449	44.593	1.00	22.09 22.93
ATOM 1377 ATOM 1378	N CA	SER SER	1063 1063	95.937 96.500	64.850 65.776	43.367 44.324	1.00 1.00	23.94
ATOM 1379	CB	SER	1063	97.290	64.996	45.370	1.00	25.73
ATOM 1380	OG	SER	.1063	97. <b>79</b> 4	65.862	46.369	1.00	32.24
ATOM 1381	С	SER	1063	97.413	66.795	43.673	1.00	23.42
ATOM 1382	0	SER	1063	97.944	66.587	42.578	1.00	20.31
ATOM 1383	N	THR	1064	97.587	67.897	44.382	1.00	26.57
ATOM 1384	CA	THR THR	1064	98.446	69.005	43.978	1.00	29.88 27.45
ATOM 1385 ATOM 1386	CB OG1	THR	1064 1064	97.629 97.036	70.305 70.707	43.763 45.004	1.00 1.00	25.21
ATOM 1387	CG2	THR	1064	96.523	70.086	42.751	1.00	26.09
ATOM 1388	C	THR	1064	99.358	69.202	45.194	1.00	32.85
ATOM 1389	0	THR	1064	99.408	68.350	46.086	1.00	34.87
ATOM 1390	N	ALA	1065	100.055	70.326	45.252	1.00	35.39
ATOM 1391	CA	ALA	1065	100.924	70.604	46.388	1.00	35.88
ATOM 1392	CB	ALA	1065	101.866	71.747	46.051	1.00	37.88
ATOM 1393 ATOM 1394	C	ALA ALA	1065 1065	100.052 100.275	70.978 70.537	47.578 48.698	1.00 1.00	35.60 35.43
ATOM 1394	N	THR	1066	99.028	70.537	47.307	1.00	36.74
ATOM 1396	CA	THR	1066	98.119	72.240	48.339	1.00	37.72
ATOM 1397	CB	THR	1066	97.434	73.583	47.895	1.00	39.54
ATOM 1398	OG1	THR	1066	96.431	73.973	48.844	1.00	41.76
ATOM 1399	CG2	THR	1066	96.792	73.444	46.514	1.00	40.92
ATOM 1400	C	THR	1066	97.043	71.261	48.808	1.00	36.34
ATOM 1401	0	THR	1066	96.641	71.307	49.975	1.00	36.42
ATOM 1402 ATOM 1403	N CA	GEN GEN	1067 1067	96.608 95.517	70.340 69.461	47.952 48.367	1.00 1.00	34.64 34.70
ATOM 1403 ATOM 1404	CB	GLN	1067	95.517 01.235	70.290	48.381	1.00	36.42
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ATOM 1405	CG	GLN	1067	93.980	70.953	47.033	1.00	40.18
ATOM 1406	CD	GLN	1067	92.844	71.952	47.052	1.00	42.84
					71.704	47.632	1.00	44.48
ATOM 1407	OE1	GLN	1067	91.783				
ATOM 1408	NE2	GLN	1067	93.048	73.080	46.383	1.00	45.42
ATOM 1409	С	GLN	1067	95.263	68.210	47.536	1.00	32.18
ATOM 1410	0	GLN	1067	95.813	68.051	46.449	1.00	32.90
ATOM 1411	N	THR	1068	94.379	67.357	48.054	1.00	29.91
ATOM 1412	CA	THR	1068	93.972	66.108	47.413	1.00	27.99
ATOM 1413	CB	THR	1068	94.296	64.860	48.291	1.00	28.36
ATOM 1414	OG1	THR	1068	95.710	64.751	48.488	1.00	30.82
ATOM 1415	CG2	THR	1068	93.788	63.581	47.636	1.00	26.64
								25.47
ATOM 1416	C	THR	1068	92.460	66.158	47.248	1.00	
ATOM 1417	0	THR	1068	91.745	66.644	48.126	1.00	25.64
ATOM 1418	N	PHE	1069	91.988	65.670	46.112	1.00	23.13
<b>ATOM 1419</b>	CA	PHE	1069	90.565	65.621	45.801	1.00	20.30
ATOM 1420	CB	PHE	1069	90.060	66.960	45.222	1.00	19.44
ATOM 1421	CG ·	PHE	1069	91.012	67.618	44.258	1.00	18.91
ATOM 1422	CD1	PHE	1069	90.765	67.593	42.890	1.00	16.69
ATOM 1423	CD2	PHE	1069	92.174	68.237	44.720	1.00	16.99
ATOM 1424	CE1	PHE	1069	91.663	68.165	41.998	1.00	17.12
ATOM 1425	CE2	PHE	1069	93.075	68.811	43.838	1.00	15.95
	CZ	PHE		92.822	68.775	42.475	1.00	17.86
ATOM 1426			1069	23				
ATOM 1427	C	PHE	1069	90.340	64.454	44.840	1.00	19.50
ATOM 1428	· O	PHE	1069	91.216	63.590	44.687	1.00	18.25
ATOM 1429	N	LEU	1070	89.171	64.402	44.216	1.00	17.14
ATOM 1430	CA	LEU	1070	88.872	63.320	43.297	1.00	16.12
ATOM 1431	CB	LEU	1070	87.699	62.499	43.806	1.00	15.63
ATOM 1432	CG	LEU	1070	87.908	61.837	45.157	1.00	13.76
ATOM 1433	CD1	LEU	1070	86.650	61.104	45.531	1.00	16.70
ATOM 1434	CD2	LEU	1.070	89.072	60.890	45.082	1.00	15.02
ATOM 1435	C	LEU	1070	88.545	63.848	41.926	1.00	16.35
ATOM 1436	ŏ	LEU	1070	88.181	65.011	41.774	1.00	18.69
ATOM 1437	N	ALA	1071	88.703	62.989	40.929	1.00	15.91
ATOM 1437 ATOM 1438	CA	ALA	1071	88.417	63.323	39.544	1.00	15.63
							1.00	14.74
ATOM 1439	CB	ALA	1071	89.701	63.547	38.773		
ATOM 1440	C	ALA	1071	87.717	62.086	39.050	1.00	16.11
ATOM 1441	0	ALA	1071	88.194	60.981	39.278	1.00	16.97
ATOM 1442	N	THR	1072	86.572	62.273	38.410	1.00	17.64
ATOM 1443	CA	THR	1072	85.764	61.171	37.914	1.00	15.73
ATOM 1444	CB	THR	1072	84.329	61.312	38.416	1.00	15.97
ATOM 1445	OG1	THR	1072	84.344	61.551	39.827	1.00	18.30
ATOM 1446	CG2	THR	1072	83.539	60.052	38.134	1.00	18.15
ATOM 1447	C	THR	1072	85.725	61.166	36.405	1.00	14.68
ATOM 1448	ŏ	THR	1072	85.511	62.197	35.786	1.00	16.38
ATOM 1449		CYS	1072		59.998	35.808	1.00	14.37
	N			85.890				
ATOM 1450	CA	CYS	1073	85.856	59.895	34.364	1.00	15.72
ATOM 1451	CB	CYS	1073	86.814	58.807	33.889	1.00	17.69
ATOM 1452	SG	CYS	1073	88.536	59.069	34.384	1.00	23.22
ATOM 1453	С	CYS	1073	84.450	59.591	33.878	1.00	16.21
ATOM 1454	0	CYS	1073	83.850	58.601	34.286	1.00	15.04
ATOM 1455	N	ILE	1074	83.907	60.472	33.044	1.00	17.51
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ATOM 1456	CA	ILE	1074	82.578	60.294	32.475	1.00	20.31
ATOM 1457	CB	ILE	1074	81.560	61.315	33.050	1.00	20.77
ATOM 1458	CG2	ILE	1074	80.171	61.053	32.472	1.00	20.99
ATOM 1459	CG1	ILE	1074	81.509	61.221	34.580	1.00	19.74
ATOM 1460	CD1	ILE	1074	80.686	62.297	35.259	1.00	16.17
ATOM 1461	С	ILE	1074	82.716	60.504	30.963	1.00	24.53
ATOM 1462	0	ILE	1074	83.299	61.493	30.521	1.00	28.24
ATOM 1463	N	ASN	1075	82.236	59.543	30.176	1.00	27.13
ATOM 1464	CA	ASN	1075	82.297	59.601	28.708	1.00	25.19
ATOM 1465	CB	ASN	1075	81.193	60.502	28.146	1.00	24.15
ATOM 1466	CG	ASN	1075	79.836	59.845	28.180	1.00	20.59
ATOM 1467	OD1	ASN	1075	79.635	58.844	28.858	1.00	22.02
ATOM 1468	ND2	ASN	1075	78.894	60.406	27.453	1.00	23.38
ATOM 1469	С	AŠN	1075	83.642	59.983	28.092	1.00	26.07
ATOM 1470	0	ASN	1075	83.707	60.798	27.164	1.00	29.28
ATOM 1471	N	GΪLΥ	1076	84.718	59.394	28.602	1.00	26.05
ATOM 1472	CA	GLY	1076	86.040	59.670	28.059	1.00	23.82
ATOM 1473	С	GĽY	1076	86.737	60.935	28.512	1.00	22.44
ATOM 1474	0	GĹY	1076	87.779	61.292	27.959	1.00	23.12
ATOM 1475	N	VAL	1077	86.202	61.595	29.534	1.00	22.15
ATOM 1476	CA	VAL	1077	86.799	62.820	30.048	1.00	21.41
ATOM 1477	CB	VÅL	1077	85.933	64.056	29.706	1.00	22.29
<b>ATOM 1478</b>	CG1	VÁL	1077	86.555	65.329	30.281	1.0Ö	22.38
ATOM 1479	CG2	VAL	1077	85.767	64.180	28.200	1.00	22.13
ATOM 1480	С	VAL	1077	86.950	62.729	31.558	1.00	20.92
<b>ATOM 1481</b>	0	VAL	1077	86.036	62.291	32.256	1.00	22.56
ATOM 1482	N	CYS	1078	88.120	63.112	32.053	1.00	19.00
ATOM 1483	CA	CYS	1078	88.399	63.090	33.482	1.00	18.18
ATOM 1484	CB	CYS	1078	89.886	62.832	33.736	1.00	17.52
ATOM 1485	SG	CYS	1078	90.338	62.568	35.461	1.00	16.09
ATOM 1486	C	CYS	1078	88.008	64.441	34.045	1.00	17.95
ATOM 1487	0	CYS	1078	88.768	65.402	33.962	1.00	21.44
ATOM 1488	N	TRP	1079	86.802	64.513	34.589	1.00	18.33
	·CA	TRP	1079	86.267	65.737	35.164	1.00	14.96
ATOM 1490	CB	TRP	1079	84.744	65.736	35.066	1.00	15.12
ATOM 1491	CG	TRP	1079	84.213	65.817	33.677	1.00	17.41
ATOM 1492	CD2	TRP	1079	84.023	67.007	32.903	1.00	18.04
ATOM 1493	CE2	TRP	1079	83.465	66.619	31.668	1.00	19.10
ATOM 1494	CE3	TRP	1079	84.268	68.369	33.137	1.00	17.65
ATOM 1495	CD1	TRP	1079	83.780	64.781	32.904	1.00	16.78
ATOM 1496	NE1	TRP	1079	83.325	65.254	31.693	1.00	19.80
ATOM 1497	CZ2	TRP	1079	83.146	67.545	30.664	1.00	19.19
ATOM 1498	CZ3	TRP	1079	83.949	69.291	32.139	1.00	15.70
ATOM 1499	CH2	TRP	1079	83,395	68.873	30.921	1.00	16.14
ATOM 1500	C	TRP	1079	86.631	65.895	36.619	1.00	15.06
ATOM 1501	0	TRP	1079	86.701	64.926	37.363	1.00	14.95
ATOM 1502	N	THR	1080	86.851	67.129	37.034	1.00	17.34
ATOM 1503	CA	THR	1080	87.148	67.390	38.421	1.00	19.67
ATOM 1504	CB	THR	1080	88.636	67.201	38.762	1.00	19.66
ATOM 1505	OG1	THR	1080	88.794	67.207	40.187	1.00	18.69
ATOM 1506	CG2	THR	1080	89.475	68.299	38.162	1.00	21.67



	<b>ATOM</b>	1507	С	THR	1080	86.663	68.781	38.780	1.00	21.24
	<b>ATOM</b>	1508	0	THR	1080	86.113	69.499	37.938	1.00	20.94
	<b>ATOM</b>	1509	N	VAL	1081	86.867	69.141	40.039	1.00	23.41
	ATOM	1510	CA	VAL	1081	86.444	70.417	40.588	1.00	23.97
	<b>ATOM</b>	1511	CB	VAL	1081	86.053	70.200	42.076	1.00	22.41
	<b>ATOM</b>	1512	CG1	VAL	1081	87.258	70.300	42.987	1.00	21.40
	<b>ATOM</b>	1513	CG2	VAL	1081	84.918	71.094	42.474	1.00	23.79
	<b>ATOM</b>	1514	С	VAL	1081	87.519	71.520	40.384	1.00	25.41
	<b>ATOM</b>	1515	0	VAL	1081	88.715	71.316	40.632	1.00	24.93
,	MOTA	1516	N	TYR	1082	87.093	72.683	39.903	1.00	25.72
	<b>ATOM</b>	1517	CA	TYR	1082	88.016	73.785	39.643	1.00	25.46
	<b>ATOM</b>	1518	CB	TYR	1082	87.321	74.892	38.840	1.00	26.17
	<b>ATOM</b>	1519	CG	TYR	1082	88.245	76.005	38.392	1.00	26.30
	<b>ATOM</b>	1520	CD1	TYR	1082	88.5 <b>3</b> 8	77.075	39.240	1.00	26.95
	MOTA	1521	CE1	TYR	1082	89.411	78.092	38.852	1.00	28.63
	<b>ATOM</b>	1522	CD2	TYR	1082	88.846	75.973	37.138	1.00	26.52
	MOTA	1523	CE2	TYR	1082	89.724	76.982	36.735	1.00	29.11
	MOTA	1524	CZ	TYR	1082	90.006	78.038	37.600	1.00	30.48
	<b>ATOM</b>	1525	OH	TYR	1082	90.886	79.038	37.222	1.00	31.27
	ATOM	1526	С	TYR	1082	88.665	74.349	40.910	1.00	25.31
	<b>ATOM</b>	1527	0	TYR	1082	89.7 <b>93</b>	74.845	40.863	1.00	22.94
	<b>ATOM</b>	1528	N	HIS	1083	87.986	74.239	42.049	1.00	24.48
	<b>ATOM</b>	1529	CA	HIS	1083	88.568	74.748	43.283	1.00	25.01
	<b>ATOM</b>		CB	HIS	1083	87.514	74.963	44.378	1.00	23.89
	ATOM		CG	HIS	1083	86.984	73.707	44.999	1.00	27.06
	MOTA		CD2	HIS	1083	87.505	72.888	45.948	1.00	28.89
	ATOM		ND1	HIS	1083	85.723	73.216	44.727	1.00	29.27
	ATOM		CE1	HIS	1083	85.4 <b>88</b>	72.155	45.479	1.00	28.81
	ATOM		NE2	HIS	1083	86.554	71.936	46.229	1.00	30.38
	ATOM		C	HIS	1083	89.701	73.853	43.766	1.00	26.93
	ATOM		0	HIS	1083	90.266	74.073	44.837	1.00	29.65
	ATOM		N	GLY	1084	90.008	72.823	42.985	1.00	25.81
	ATOM		CA	GLY	1084	91.082	71.922	43.336	1.00	23.74
	ATOM		C	GLY	1084	92.153	71.987	42.266	1.00	21.87
	ATOM		0	GLY	1084	93.286	72.360	42.540	1.00	22.00
	ATOM		N	ALA	1085	91.771	71.667	41.035	1.00	21.01
	ATOM		CA	ALA	1085	92.696	71.662	39.911	1.00	20.52
	ATOM		CB	ALA	1085	92.103	70.883	38.752	1.00	18.56
	ATOM		C	ALA	1085	93.143	73.034	39.436	1.00	21.49
	ATOM		0	ALA	1085	94.273	73.192	39.000	1.00	23.82
	MOTA		N	GLY	1086	92.265	74.025	39.498	1.00	22.93
	MOTA		CA	GLY	1086	92.641	75.344 75.064	39.033	1.00	22.64
	MOTA		C	GLY	1086	92.791	75.264	37.526	1.00	25.01
	ATOM		0	GLY	1086	91.981	74.631	36.851	1.00	25.80
	ATOM		N	THR	1087	93.830	75.876	36.984	1.00	26.41
	ATOM		CA	THR	1087	94.032	75.829	35.544	1.00	29.05 32.46
1	MOTA		CB	THR	1087	94.450	77.204	35.003	1.00 1.00	32.46 34.46
1	ATOM		OG1	THR	1087	95.572	77.683	35.758 35.086	1.00	33.93
	MOTA		CG2	THR	1087 1087	93.292	78.209	35.086 35.159	1.00	28.61
:	ATOM ATOM		C	THR	1087	95.127	74.846	33.971	1.00	30.95
•	ATOM	133/	0	THR	1007	95. <b>422</b>	74.679	JJ.3/ 1	1.00	50.35

WO 98/11134				3660 IGURE 3 (CONT	SAMPAN VICE TO THE	PCT	T/US97/16	5182
			F	IGURE 3 (CONT.	.) 🚆			
ATOM 1550	A.I	ADO			*2	00.400	4.00	07.70
ATOM 1558 ATOM 1559	N CA	ARG ARG	1088 1088	95.689 96.793	74‡145 73:247	36.138 35.837	1.00 1.00	27.72 26.27
ATOM 1560	CB	ARG	1088	97.606	72.923	37.083	1.00	25.05
ATOM 1561	CG	ARG	1088	96.830	72.482	38.249	1.00	22.82
ATOM 1562	CD	ARG	1088	97.651	72.707	39.472	1.00	22.84
ATOM 1563	NE	ARG	1088	96.964	73.601	40.382	1.00	26.47
ATOM 1564	CZ	ARG	1088	97.386	73.875	41.607	1.00	28.75
ATOM 1565	NH1	ARG	1088	98.505	73.324	42.068	1.00	31.62
ATOM 1566	NH2	ARG	1088	96.677	74.691	42.375	1.00	29.37
ATOM 1567	C	ARG	1088	96.577	72.014	34.993	1.00	25.66
ATOM 1568	0	ARG	1088	95.448	71,583	34.752	1.00	28.07
ATOM 1569	N	THR	1089	97.694	71,509	34.487	1.00	23.84
ATOM 1570 ATOM 1571	CA CB	THR THR	1089	97.736	70,343	33.633	1.00	23.41
ATOM 1571	OG1	THR	1089 1089	99.014 100.146	70,390 70,668	32.769 33.602	1.00 1.00	23.85 24.27
ATOM 1572	CG2	THR	1089	98.916	71.474	31.715	1.00	21.97
ATOM 1574	C	THR	1089	97.742	69.085	34.493	1.00	23.76
ATOM 1575	ŏ	THR	1089	97.876	69 172	35.717	1.00	24.27
ATOM 1576	N	ILE	1090	97.546	67.925	33.869	1.00	21.48
AT@M 1577	CA	ILE	1090	97.570	66 659	34.600	1.00	20.72
ATOM 1578	CB	ILE	1090	96.251	65 811	34.409	1.00	19.48
ATOM 1579	CG2	ILE	1090	96.115	65 296	32.977	1.00	20.97
ATOM 1580	CG1	ILE	1090	96.216	64,642	35.405	1.00	19.86
ATOM 1581	CD1	ILE	1090	94.857	63.936	35.519	1.00	15.19
ATOM 1582 ATOM 1583	CO	ILE	1090 1090	98.803	65.896	34.135	1.00	19.55
ATOM 1583	N	ALA	1090	99.091 99.582	65.841 65.395	32.940 35.085	1:00 1.00	17.18 19.06
ATOM 1585	CA	ALA	1091	100.786	64.648	34.750	1.00	17.95
ATOM 1586	CB	ALA	1091	101.558		36.007	1.00	15.33
ATOM 1587	C	ALA	1091	100.378	63.374	34.036	1.00	19.98
<b>ATOM 1588</b>	0	ALA	1091	99.509	62.643	34.515	1.00	22.10
ATOM 1589	N	SER	1092	100.978	63.116	32.882	1.00	21.44
ATOM 1590	CA	SER	1092	100.667	61.913	32.128	1.00	24.34
ATOM 1591	CB	SER	1092	99.759	62.244	30.941	1.00	24.98
ATOM 1592	OG	SER	1092	100.517	62.642	29.817	1.00	26.24
ATOM 1593 ATOM 1594	CO	SER SER	1092 1092	101.953	61.271 61.838	31.629	1.00	25.86
ATOM 1594 ATOM 1595	N	PRO	1092	103.030 101.862	60.064	31.771 31.060	1.00 1.00	27.85 27.32
ATOM 1596	CD	PRO	1093	100.670	59.207	30.955	1.00	28.88
ATOM 1597	CA	PRO	1093	103.038	59.366	30.544	1.00	29.05
ATOM 1598	СВ	PRO	1093	102.424	58.145	29.864	1.00	29.52
ATOM 1599	CG	PRO	1093	101.270	57.843	30.734	1.00	30.09
ATOM 1600	C	PRO	1093	103.807	60.199	29.532	1.00	29.67
ATOM 1601	0	PRO	1093	105.029	60.101	29.450	1.00	31.90
ATOM 1602	N	LYS	1094	103.081	61.014	28.767	1.00	29.17
ATOM 1603	CA	LYS	1094	103.669	61.855	27.729	1.00	28.35
ATOM 1604	CB	LYS	1094	102.769	61.857	26.492	1.00	25.80
ATOM 1605	CG	LYS	1094	102.678	60.505	25.833	1.00	26.73
ATOM 1606 ATOM 1607	CD CE	LYS LYS	1094 1094	102.036 102.138	60.568 59.217	24.467 23.790	1.00 1.00	28.73 30.21
ATOM 1608	NZ	LYS	1094	101.569	59.217 59.241	23.790 22.428	1.00	31.93
P.,	144	0	.007			- <u>-</u> .720	1.00	01.30
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WO 98/11134		PCT/US97/16182				182		
			FI	GURE 3 (CONT.)				
ATOM 1609 ATOM 1610 ATOM 1611 ATOM 1613 ATOM 1613 ATOM 1615 ATOM 1616 ATOM 1616 ATOM 1617 ATOM 1618 ATOM 1620 ATOM 1621 ATOM 1621 ATOM 1622 ATOM 1623 ATOM 1624 ATOM 1625 ATOM 1625 ATOM 1628 ATOM 1627 ATOM 1628 ATOM 1630 ATOM 1631 ATOM 1631 ATOM 1632 ATOM 1633 ATOM 1633 ATOM 1634 ATOM 1635 ATOM 1635 ATOM 1636 ATOM 1636 ATOM 1637	CONCCONCACCONCACCCONCACCCONCACCONCACCONCACCONCACCONCACCONCACCONCACCCONCACCCONCACCCONCACCCONCACCONCACCONCACCONCACCONCACCONCACCONCACCONCACCONCACCONCACCONCACCO	LYS Y Y Y O O O O PRO PRO PRO PRO VAL VAL VAL ILE ILE ILE ILE ILE ILE ILE ILE ILE IL	1094 1095 1095 1095 1095 1096 1096 1096 1096 1097 1097 1097 1097 1097 1097 1097 1098 1098 1098 1098 1098 1098 1098 1098	103.934 104.098 104.021 104.261 102.962 101.935 102.973 104.071 101.720 102.163 103.321 100.732 101.125 99.450 98.393 97.598 96.393 97.598 96.393 97.495 97.051 97.495 97.051 97.298 96.474 96.731 96.029 98.247 98.659 94.986 94.546 94.212	63.281 64.187 63.471 64.794 65.406 64.724 66.668 67.640 67.258 68.611 67.569 67.270 67.386 66.077 66.224 64.964 68.563 68.675 69.478 70.666 71.698 73.015 71.932 72.943 70.313 69.325 71.120	28.177 27.348 29.487 30.035 30.514 30.527 30.959 31.038 31.419 31.970 31.117 30.268 29.116 30.582 29.595 29.595 29.520 28.609 29.009 29.973 31.113 29.032 29.252 28.135 28.447 28.008 26.946 29.331 28.752 30.043	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	29.51 31.07 30.06 29.06 27.34 28.11 24.82 24.20 24.35 23.18 25.11 24.48 25.88 25.45 24.09 22.86 21.59 23.88 24.81 25.35 25.37 27.24 26.41 30.74 32.59 23.54 24.20 20.79
ATOM 1638 ATOM 1640 ATOM 1641 ATOM 1642 ATOM 1643 ATOM 1644 ATOM 1645 ATOM 1646 ATOM 1647 ATOM 1649 ATOM 1650 ATOM 1651 ATOM 1651 ATOM 1653 ATOM 1653 ATOM 1655 ATOM 1655 ATOM 1655 ATOM 1657 ATOM 1658 ATOM 1658 ATOM 1659	CA CC CC	GLN GLN GLN GLN GLN MET MET MET MET TYR TYR TYR	1099 1099 1099 1099 1099 1099 1099 1100 1100 1100 1100 1100 1101 1101 1101 1101 1101	92.787 92.188 92.897 92.215 91.129 92.827 91.973 92.217 91.006 90.099 89.418 90.052 88.916 88.786 89.002 88.581 88.495 87.424 86.103 85.809 86.004 85.784	70.853 71.774 71.747 72.607 73.118 72.767 70.990 71.882 70.090 70.094 68.737 67.816 66.522 65.731 71.124 71.801 71.180 72.098 71.340 70.388 69.022 68.146	30.193 31.236 32.534 33.541 33.286 34.704 28.918 28.109 28.752 27.606 27.447 26.450 25.981 27.470 27.819 26.879 29.047 29.402 29.561 28.431 28.582 27.525	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	20.64 16.40 17.16 20.14 25.87 21.32 22.84 25.86 23.50 22.12 20.94 22.51 22.15 23.27 23.05 24.71 22.24 20.19 19.75 21.76 20.14 22.53

# PRISO FIGURE 3 (CONT.)

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ATOM 1660	CD2	TYR	1101	85.383	70.859	27.195	1.00	22.07
<b>ATOM 1661</b>	CE2	TYR	1101	85.161	69.998	26.137	1.00	21.98
ATOM 1662	CZ	TYR	1101	85.363	68.642	26.304	1.00	22.76
ATOM 1663	OH	TYR	1101	85.130	67.781	25.254	1.00	24.74
ATOM 1664	С	TYR	1101	87.750	72.764	30.716	1.00	21.21
ATOM 1665	0	TYR	1101	88.437	72.187	31.560	1.00	22.22
ATOM 1666	N	THR	1102	87.236	73.973	30.890	1.00	23.24
ATOM 1667	CA	THR	1102	87.424	74.741	32.111	1.00	24.37
ATOM 1668	CB	THR	1102	88.640	75.681	32.013	1.00	24.53
ATOM 1669	OG1	THR	1102	89.738	74.991	31.399	1.00	23.57
ATOM 1670	CG2	THR	1102	89.047	76.169	33.403	1.00	22.58
ATOM 1671	C	THR	1102	86.175	75.597	32.244	1.00	25.86
ATOM 1672	ŏ	THR	1102	85.658	76.094	31.246	1.00	28.08
ATOM 1673	N	ASN	1103	85.668	75.740	33.460	1.00	26.20
ATOM 1674	CA	ASN	1103	84.480	76.547	33.700	1.00	25.78
ATOM 1675	CB	ASN	1103	83.213	75.752	33.372	1.00	26.82
ATOM 1676	CG	ASN	1103	81.947	76.585	33.511	1.00	28.67
ATOM 1677	OD1	ASN	1103	81.932	77.609	34.199	1.00	30.76
ATOM 1677	ND2	ASN	1103	80.871	76.135	32.882	1:00	27.57
ATOM 1678	C	ASN	1103	84.480	76.133	35.156	1.00	26.25
ATOM 1679	Ö	ASN	1103	83.832	76.391	36.006	1.00	27.25
ATOM 1680 ATOM 1681	N	VAL	1104	85.212	78.069	35.430	1.00	27.25
ATOM 1681	CA	VAL	1104	85.333	78.611	36.776	1.00	28.21
ATOM 1682 ATOM 1683	CB	VAL	1104		79.980	36.778	1.00	27.51
ATOM 1683	CG1	VAL	1104	86.025 86.316	80.397	38.205	1.00	28.55
ATOM 1685	CG2	VAL	1104	87.298	79.948	35.963	1.00	28.06
ATOM 1685		VAL	1104				1.00	30.54
	C			83.978	78.796	37.419		
ATOM 1687	0	VAL	1104	83.803	78.517	38.604	1.00	31.53
ATOM 1688	N	ASP	1105	83.022	79.260	36.626	1.00	33.66
ATOM 1689	CA	ASP	1105	81.677	79.503	37.117	1.00	36.82
ATOM 1690	CB	ASP	1105	80.788	80.061	36.001	1.00	41.34
ATOM 1691	CG	ASP	1105	81.192	81.457	35.573	1.00	45.36
ATOM 1692	OD1	ASP	1105	81.157	82.369	36.429	1.00	47.53
ATOM 1693	OD2	ASP	1105	81.543	81.636	34.382	1.00	48.54
ATOM 1694	C	ASP	1105	81.058	78.241	37.676	1.00	36.71
ATOM 1695	0	ASP	1105	80.645	78.200	38.835	1.00	36.88
ATOM 1696	N	GLN	1106	81.011	77.203	36.851	1.00	36.71
ATOM 1697	CA	GLN	1106	80.417	75.940	37.266	1.00	36.44
ATOM 1698	CB	GLN	1106	79.895	75.194	36.042	1.00	38.58
ATOM 1699	CG	GLN	1106	78.821	76.012	35.312	1.00	43.02
ATOM 1700	CD	GLN	1106	78.192	75.305	34.120	1.00	44.86
ATOM 1701	OE1	GLN	1106	77.334	75.870	33.437	1.00	44.11
ATOM 1702	NE2	GLN	1106	78.606	74.068	33.866	1.00	47.22
ATOM 1703	С	GLN	1106	81.342	75.077	38.122	1.00	34.06
ATOM 1704	0	GLN	1106	80.930	74.029	38.625	1.00	33.78
ATOM 1705	N	ASP	1107	82.561	75.575	38.339	1.00	29.82
ATOM 1706	CA	ASP	1107	83.577	74.900	39.144	1.00	26.00
ATOM 1707	CB	ASP	1107	83.039	74.635	40.551	1.00	26.29
ATOM 1708	CG	ASP	1107	84.138	74.436	41.574	1.00	25.28
ATOM 1709	OD1	ASP	1107	85.287	74.822	41.303	1.00	26.49
ATOM 1710	OD2	ASP	1107	93.844	73.914	42.666	1.00	25.48
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ATOM 1711	С	ASP	1107	84.0	16 73.597	38.492	1.00	23.82
ATOM 1712	0	ASP	1107	84.3			1.00	23.57
ATOM 1713	N	LEU	1108	84.0	•		1.00	21.98
ATOM 1714	CA	LEU	1108	84.4			1.00	22.63
ATOM 1715	CB	LEU	1108	83.34			1.00	21.22
ATOM 1716	CG	LEU	1108	82.09	:		1.00	21.50
ATOM 1717	CD1	LEU						
	CD2		1108	81.0			1.00	21.03
ATOM: 1718		LEU	1108	82.4			1.00	20.86
ATOM: 1719	C	LEU	1108	85.78			1.00	22.72
ATOM 1720	0	LEU	1108	86.20	1.4		1.00	24.88
ATOM 1721	N	VAL	1109	86.4	7		1.00	20.91
ATOM 1722	CA	VAL	1109	87.69	(+3)		1.00	20.17
ATOM 1723	CB	VAL	1109	88.88	55 <b>7</b> 1.3 <u>9</u> 9	35.833	1.00	21.15
ATOM: 1724	CG1	VAL	1109	90.1	<b>।</b>	35.292	1.00	22.22
ATOM: 1725	CG2	VAL	1109	89.09	92 72.858	36.156	1.00	22.70
ATOM 1726	С	VAL	1109	87.67	74 69.85 <sup>5</sup> 0	34.245	1.00	19.05
ATOM: 1727	0	VAL	1109	87.06	68.9 <del>6</del> 7	34.839	1.00	19.81
ATOM: 1728	N	GLY	1110	88.30	A1.		1.00	17.18
ATOM: 1729	CA	GLY	1110	88.32	is.		1.00	16.06
ATOM: 1730	С	GLY	1110	89.51			1.00	17.59
ATOM: 1731	0	GLY	1110	89.89	9		1.00	16.16
ATOM 1732	Ň	TRP	1111	90.13	14		1.00	17.19
ATOM: 1733	CA	TRP	1111	91.29	•		1.00	16.21
ATOM 1734	CB	TRP	1111	92.49	•	31.721	1.00	14.75
ATOM 1735	CG	TRP	1111	93.03	ž.	32.642	1.00	11.64
ATOM 1736	CD2	TRP	1111	92.80	,		1.00	11.04
ATOM 1737	CE2	TRP	1111	93.57		34.525	1.00	11.37
ATOM: 1738	CE3	TRP	1111	92.01		34.973	1.00	
ATOM: 1739	CD1	TRP	1111	93.91				13.68
ATOM 1739	NE1	TRP	1111			32.321	1.00	11.69
ATOM 1741	CZ2	TRP		94.24	-	33.447	1.00	14.19
ATOM 1741			1111	93.58		35.867	1.00	11.96
	CZ3	TRP	1111	92.02		36.308	1.00	11.51
ATOM 1743	CH2	TRP	1111	92.80		36.741	1.00	13.13
ATOM: 1744	C	TRP	1111	90.87		30.125	1.00	17.82
ATOM 1745	0	TRP	1111	89.88		30.516	1.00	20.28
ATOM 1746	N	PRO	1112	91.58		29.053	1.00	18.22
ATOM 1747	CD	PRO	1112	92.71		28.331	1.00	17.52
ATOM 1748	CA	PRO	1112	91.15		28.406	1.00	16.49
ATOM 1749	CB	PRO	1112	92.18		27.309	1.00	15.54
ATOM 1750	CG	PRO	1112	92.58	6 64.846	26.978	1.00	18.88
ATOM: 1751	С	PRO	1112	91.31	8 62.567	29.477	1.00	18.48
ATOM: 1752	0	PRO	1112	92.20	7 62.679	30.322	1.00	21.84
ATOM:1753	N	ALA	1113	90.44	3 61.573	29.512	1.00	19.42
ATOM: 1754	CA	ALA	1113	90.57	2 60.540	30.526	1.00	18.50
ATOM 1755	CB	ALA	1113	89.44	4	30.420	1.00	17.46
ATOM 1756	С	ALA	1113	91.90		30.319	1.00	20.35
ATOM 1757	0	ALA	1113	92.27		29.189	1.00	21.19
ATOM 1758	Ň	PRO	1114	92.68	¿**	31.396	1.00	21.47
ATOM 1759	CD	PRO	1114	92.48	¥.	32.783	1.00	22.45
ATOM 1760	CA	PRO	1114	93.98	4,		1.00	22.43
ATOM 1761	CB	PRO	1114	93.96		31.250	1.00	23.65
F	OD	FNO	1114	##. <b>5</b> 2	5	32.682	1.00	23.03
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ATOM 1762	CG	PRO	1114	93.3	306 59.13	38 33.537	1.00	22.54
ATOM 1763	С	PRO	1114	93.8	335 57.6	20 30.693	1.00	24.51
ATOM 1764	0	PRO	1114	92.8	388 56.9	03 31.024	1.00	26.99
ATOM 1765	N	GLN	1115	94.7	730 57.2	54 29.786	1.00	26.09
ATOM 1766	CA	GLN	1115	94.7	<b>7</b> 06 55.92	25 29.195	1.00	28.46
ATOM 1767	CB	GLN	1115	95.9	903 55.74	44 28.258	1.00	30.59
ATOM 1768	ÇG	GLN	1115	95.8	395 56.6s	56 27.033	1.00	34.32
ATOM 1769	CD	GLN	1115	94.8	365 56.2°	36 26.009	1.00	37.60
ATOM 1770	OE1	GLN	1115	94.7	<b>'</b> 31 55.0	51 25.699	1.00	39.96
ATOM 1771	NE2	GLŅ	1115	94.1	22 57.20	03 25.479	1.00	41.37
ATOM 1772	С	GLN	1115	94.7	<b>762</b> 54.89	95 30.325		28.93
ATOM 1773	0	GLN	1115	95.5				29.99
ATOM 1774	N	GLY	1116	93.8				28.45
ATOM 1775	CA	GLY	1116	93.8				28.19
ATOM 1776	C	GLY	1116	92.5				28.90
ATOM 1777	0	GLY	1116	92.1				30.64
ATOM 1778	N	SER	1117	92.0				28.03
ATOM 1779	CA	SER	1117	90.8				25.22
ATOM 1780	СВ	SER	1117	90.6				21.89
ATOM 1781	OG	SER	1117	90.5				17.60
ATOM 1782	C	SER	1117	89.5				25.37
ATOM 1783	0	SER	1117	89.5				26.03
ATOM 1784	N	ARG	1118	88.4			1.00	25.35
ATOM 1785	CA	ARG	1118	87.1				25.91
ATOM 1786	CB	ARG	1118	86.6				31.51
ATOM 1787	CG	ARG	1118	87.3				42.46 51.80
ATOM 1788 ATOM 1789	CD NE	ARG ARG	1118 1118	87.6 87.8				61.09
ATOM 1789	CZ	ARG	1118	88.8				65.33
ATOM 1790	NH1	ARG	1118	88.9				68.07
ATOM 1791	NH2	ARG	1118	89.6				67.27
ATOM 1793	C	ARG	1118	86.2				24.68
ATOM 1794	ŏ	ARG	1118	86.3				24.68
ATOM 1795	N	SER	1119	85.3				22.26
ATOM 1796	CA	SER	1119	84.4				22.87
ATOM 1797	СВ	SER	1119	84.3				21.77
ATOM 1798	OG	SER	1119	85.5				26.02
ATOM 1799	Č	SER	1119	83.0				20.90
ATOM 1800	0	SER	1119	82.6				21.97
ATOM 1801	N	LEU	1120	82.3			1.00	19.67
ATOM 1802	CA	LEU	1120	81.0				16.91
ATOM 1803	CB	LEU	1120	80.6			1.00	13.88
ATOM 1804	CG	LEU	1120	81.3			1.00	11.68
ATOM 1805	CD1	LEU	1120	80.9	78 57.62	23 37.470	1.00	11.76
ATOM 1806	CD2	LEU	1120	80.8	54 55.20	9 36.950	1.00	13.04 <sup>†</sup>
ATOM 1807	С	LEU	1120	80.1	97 56.82	28 32.704	1.00	16.42
ATOM 1808	0	LEU	1120	80.7	53 57.50	9 31.840	1.00	15.05
ATOM 1809	N	THR	1121	78.8	93 56.60	2 32.714	1.00	18.09
ATOM 1810	CA	THR	1121	78.0			1.00	19.50
ATOM 1811	CB	THR	1121	77.3			1.00	20.88
ATOM 1812	OG1	THR	1121	77.0	11 54.98	31.620	1.00	26.65
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ATOM 1813	CG2	THR	1121	78.372	55.683	29.758	1.00	21.77
ATOM 1814	C	THR	1121	76.938	57.941	32.485	1.00	18.52
ATOM 1815 ATOM 1816	O N	THR PRO	1121 1122	76.613 76.441	57.579 59.052	33.616 31.931	1.00 1.00	20.72 18.23
ATOM 1817	CD	PRO	1122	76.865	59.703	30.680	1.00	17.02
ATOM 1818	CA	PRO	1122	<b>75.403</b>	59.835	32.606	1.00	18.29
ATOM 1819	CB	PRO	1122	75.108	60.939	31.600	1.00	18.11
ATOM 1820	CG	PRO	1122	76.432	61.122	30.908	1.00	16.83
ATOM 1821	C	PRO	1122	74.153	59.019	32.931	1.00	20.74
ATOM 1822	0	PRO	1122	73.887	57.985	32.317	1.00	22.14
ATOM 1823 ATOM 1824	N CA	CYS CYS	1123 1123	73.405 72.184	59.476 58.807	33.925 34.348	1.00 1.00	23.09 25.58
ATOM 1825	CB	CYS	1123	71.811	59.265	35.759	1.00	25.03
ATOM 1826	SG	CYS	1123	70.363	58.469	36.474	1.00	22.23
ATOM 1827	<b>C</b> .	CYS	1123	71.069	59.169	33.381	1.00	27.87
ATOM 1828	0	CYS	1123	70.978	60.314	32.942	1.00	29.71
ATOM 1829	N	THR	1124	70.211	58.199	33.075	1.00	30.25
ATOM 1830	CA	THR	1124	69.086	58.398	32.162	1.00	30.66
ATOM 1831 ATOM 1832	CB OG1	THR THR	1124 1124	69.407 69.987	57.845 56.537	30.756 30.874	1.00 1.00	29.19 28.07
ATOM 1832	CG2	THR	1124	70.354	58.776	30.009	1.00	26.85
ATOM 1834	C	THR	1124	67.853	57.684	32.720	1.00	32.73
ATOM 1835	0	THR	1124	67.224	56.867	32.049	1.00	35.79
ATOM 1836	Ν	CYS	1125	67.532	<b>57.980</b> <sup>§</sup>	33.971	1.00	33.01
ATOM 1837	CA	CYS	1125	66.395	57.373	34.639	1.00	32.02
ATOM 1838	CB	CYS	1125	66.836	56.136°	35.433	1.00	33.60
ATOM 1839 ATOM 1840	SG C	CYS CYS	1125 1125	67.885 65.785	56.458 58.403	36.910 35.571	1.00 1.00	37.33 31.70
ATOM 1841	ŏ	CYS	1125	64.771	58.151	36.211	1.00	35.06
ATOM 1842	N	GLY	1126	66.417	59.569	35.642	1.00	30.53
ATOM 1843	CA	GLY	1126	65.927	60.636	36.490	1.00	30.87
ATOM 1844	С	GLY	1126	65.769	60.278	37.954	1.00	30.72
ATOM 1845	0	GLY	1126	65.092	60.991	38.691	1.00	33.42
ATOM 1846 ATOM 1847	N	SER	1127	66.408	59.200	38.394	1.00	29.86
ATOM 1848	CA CB	SER SER	1127 1127	66.297 67.098	58.790 57.519	39.786 40.045	1.00 1.00	29.79 28.49
ATOM 1849	OG	SER	1127	67.027	57.174	41.421	1.00	30.28
ATOM 1850	C	SER	1127	66.718	59.881	40.771	1.00	31.88
ATOM 1851	0	SER	1127	67.629	60.673	40.499	1.00	31.79
ATOM 1852	N	SER	1128	66.045	59.908	41.917	1.00	32.25
ATOM 1853	CA	SER	1128	66.335	60.884	42.957	1.00	32.78
ATOM 1854	CB	SER	1128	65.045	61.545	43.431	1.00	34.11
ATOM 1855 ATOM 1856	OG C	SER SER	1128 1128	64.117 67.061	60.564 60.246	43.869 44.139	1.00 1.00	38.32 31.47
ATOM 1857	Ö	SER	1128	67.345		45.130	1.00	30.85
ATOM 1858	Ň	ASP	1129	67.293		44.066	1.00	29.87
ATOM 1859	CA	ASP	1129	68.012	58.219	45.123	1.00	29.89
ATOM 1860	CB	ASP	1129	67.408	56.839	45.348	1.00	31.52
ATOM 1861	CG	ASP	1129	65.931	56.898		1.00	34.71
ATOM 1862	OD1	ASP	1129	65.561	57.534		1.00	36.72
ATOM 1,863	OD2	ASP	1129	65.141	56.320	44.878	1.00	35.48
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ATOM 1864	С	ASP	1129	69.442	58.075	44.624	1.00	29.13
ATOM 1865	0	ASP	1129	69.711	57.254	43.745	1.00	28.49
ATOM 1866	Ν	LEU	1130	70.342	58.886	45.177	1.00	27.18
ATOM 1867	CA	LEU	1130	71.740	58.907	44.760	1.00	24.28
ATOM 1868	CB	LEU	1130	72.156	60.349	44.445	1.00	23.07
ATOM 1869	CG	LEU	1130	71.172	61.255	43.689	1.00	21.59
ATOM 1870	CD1	LEU	1130	71.727	62.664	43.589	1.00	19.14
ATOM 1871	CD2	LEU	1130	70.883	60.693	42.319	1.00	19.32
ATOM 1872	С	LEU	1130	72.690	58.324	45.802	1.00	23.34
ATOM 1873	0	LEU	1130	72.347	58.198	46.979	1.00	24.14
ATOM 1874	N	TYR	1131	73.898	57.988	45.360	1.00	23.40
ATOM 1875	CA	TYR	1131	74.928	57.423	46.225	1.00	22.86
ATOM 1876	CB	TYR	1131	75.039	55.924	45.980	1.00	22.51
ATOM 1877	CG	TYR	1131	73.719	55.224	46.135	1.00	21.96
ATOM 1878	CD1	TYR	1131	72.923	54.955	45.034	1.00	21.81
ATOM 1879	CE1	TYR	1131	71.671	54.382	45.176	1.00	22.83
ATOM 1880	CD2	TYR	1131	73.234	54.893	47.393	1.00	24.12
ATOM 1881	CE2	TYR	1131	71.985	54.318	47.551	1.00	24.94
ATOM 1882	CZ	TYR	1131	71.205	54.065	46.437	1.00	24.69
ATOM 1883	ОН	TYR	1131	69.951	53.504	46.590	1.00	26.44
<b>ATOM 1884</b>	C	TYR	1131	76.268	58.108	45.965	1.00	22.03
ATOM 1885	0	TYR	1131	76.773	58.088	44.847	1.00	22.92
ATOM 1886	N	LEU	1132	76.809	58.737	47.003	1.00	21.21
<b>ATOM 1887</b>	CA	LEU	1132	78.071	59.463	46.956	1.00	20.60 <sup>3</sup>
ATOM 1888	CB	LEU	1132	78.032	60.576	48.007	1.00	21.28
ATOM 1889	CG	LEU	1132	78.843	61.874	47.906	1.00	23.35
ATOM 1890	CD1	LEU	1132	78.614	62.661	49.172	1.00	25.61
ATOM 1891	CD2	LEU	1132	80.319	61.623	47.741	1.00	26.41
ATOM 1892	С	LEU	1132	79.249	58.541	47.263	1.00	20.51
ATOM 1893	0	LEU	1132	79.250	57.853	48.283	1.00	23.83
ATOM 1894	N	VAL	1133	80.246	58.524	46.386	1.00	18.28
ATOM 1895	CA	VAL	1133	81.438	57.714	46.592	1.00	16.12
ATOM 1896	CB	VAL	1133	81.912	57.067	45.284	1.00	14.27
ATOM 1897	CG1	VAL	1133	83.198	56.291	45.516	1.00	11.21
ATOM 1898	CG2	VAL	1133	80.821	56.165	44.722	1.00	9.93
ATOM 1899	С	VAL	1133	82.538	58.635	47.130	1.00	20.05
ATOM 1900	0	VAL	1133	83.051	59.504	46.411	1.00	18.89
ATOM 1901	N	THR	1134	82.861	58.471	48.410	1.00	21.68
ATOM 1902	CA	THR	1134	83.876	59.286	49.061	1.00	21.80
ATOM 1903	CB	THR	1134	83.741	59.227	50.584	1.00	19.89
ATOM 1904	OG1	THR	1134	84.183	57.946	51.043	1.00	21.40
ATOM 1905	CG2	THR	1134	82.292	59.428	50.999	1.00	18.10
ATOM 1906	С	THR	1134	85.296	58.872	48.705	1.00	24.10
ATOM 1907	Ö	THR	1134	85.530	57.792	48.166	1.00	24.71
ATOM 1908	Ň	ARG	1135	86.245	59.719	49.083	1.00	26.05
ATOM 1909	CA	ARG	1135	87.665	59.488	48.840	1.00	28.72
ATOM 1910	CB	ARG	1135	88.472	60.667	49.386	1.00	32.63
ATOM 1911	CG	ARG	1135	89.950	60.546	49.160	1.00	35.08
ATOM 1912	CD	ARG	1135	90.705	61.556	49.968	1.00	39.19
ATOM 1913	NE	ARG	1135	92.134	61.292	49.896	1.00	46.35
ATOM 1914	CZ	ARG	1135	93.018	61.704	50.798	1.00	53.28
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ATOM 1915	NH1	ARG	1135	94.305	61.414	50.643	1.00	56.95
ATOM 1916	NH2	ARG	1135	92.618	<b>62.396</b>	51.862	1.00	57.23
ATOM 1917	С	ARG	1135	88.173	58.202	49.487	1.00	27.12
ATOM 1918	O.	ARG	1135	89.205	57.668	49.094	1.00	28.70
ATOM 1919	N	HIS	1136	87.471	57.732	50.508	1.00	26.02
ATOM 1920	CA	HIS	1136	87.875	56.517	51.201	1.00	25.17
ATOM 1921	CB	HIS	1136	87.613	56.649	52.695	1.00	27.11
ATOM 1922	CG	HIS	1136	88.126	57.929	53.272	1.00	33.56
ATOM 1923	CD2	HIS	1136	87.473	59.032	53.704	1.00	37.55
ATOM 1924	ND1	HIS	1136	89.473	58.206	53.392	1.00	35.53
ATOM 1925	CE1	HIS	1136	89.626	59.429	53.869	1.00	38.38
ATOM 1926	NE2	HIS	1136	88.429	59.954	54.068	1.00	39.18
ATOM 1927	C	HIS	1136	87.150	55.306§	50.645	1.00	24.36
ATOM 1928	ŏ	HIS	1136	87.172	54.236	51.252	1.00	24.55
ATOM 1929	N	ALA	1137	86.522	55.480	49.485	1.00	21.92
ATOM 1930	CA	ALA	1137	85.796	54.413	48.823	1.00	20.47
ATOM 1930	CB	ALA	1137	86.728	53.257	48.511	1.00	20.48
ATOM 1931	C	ALA	1137	84.588	53.934	49.623	1.00	21.30
ATOM 1932 ATOM 1933	Ö	ALA	1137		52.734 s	49.719	1.00	22.24
ATOM 1933 ATOM 1934	N	ASP	1137	84.316	54.880 <sup>3</sup>	50.218	1.00	21.09
ATOM 1934 ATOM 1935	CA	ASP	1138	83.876	54.569	50.218	1.00	21.30
FC.	CB	ASP		82.674	55.283	52.325	1.00	20.40
ATOM 1936	CG	ASP	1138	82.662	55.265 54.731	53.291	1.00	20.40
ATOM 1937			1138	83.685	*4			23.51
ATOM 1938	OD1	ASP	1138	83.890	53.501	53.319	1.00	
ATOM 1939	OD2	ASP	1138	84.287	55.527	54.034	1.00	23.93
ATOM 1940	C	ASP	1138	81.537	55.097	50:119	1.00	23.33
ATOM 1941	0	ASP	1138	81.646	56.183	49.546	1.00	25.82
ATOM 1942	N	VAL	1139	80.468	54.320	50.003	1.00	23.72
ATOM 1943	CA	VAL	1139	79.305	54.702	49.214	1.00	20.95
ATOM 1944	CB	VAL	1139	78.779	53.501	48.415	1.00	18.28
ATOM 1945	CG1	VAL	1139	77.527	53.875	47.661	1.00	15.80
ATOM 1946	CG2	VAL	1139	79.857	52.982	47.481	1.00	12.00
ATOM 1947	C	VAL	1139	78.251	55.125	50.208	1.00	22.42
ATOM 1948	0	VAL	1139	77.814	54.316	51.017	1.00	25.81
ATOM 1949	N	ILE	1140	77.862	56.389	50.188	1.00	23.66
ATOM 1950	CA	ILE	1140	76.854	56.863	51.130	1.00	25.17
ATOM 1951	CB	ILE	1140	77.449	57.935	52.089	1.00	26.79
ATOM 1952	CG2	ILE	1140	78.669	57.368	52.805	1.00	27.35
ATOM 1953	CG1	ILE	1140	77.887	59.188	51.330	1.00	28.07
ATOM 1954	CD1	ILE	1140	78.560	60.238	52.219	1.00	27.71
ATOM 1955	С	ILE	1140	75.607	<b>57.375</b>	50.408	1.00	25.17
ATOM 1956	0	ILE	1140	75.717	58.102	49.433	1.00	25.94
ATOM 1957	N	PRO	1141	74.406	56.943	50.834	1.00	25.23
ATOM 1958	CD	PRO	1141	74.102	56.065	51.974	1.00	26.31
ATOM 1959	CA	PRO	1141	73.167	57.388	50.189	1.00	26.02
ATOM 1960	CB	PRO	1141	72.099	56.552	50.887	1.00	26.05
ATOM 1961	CG	PRO	1141	72.647	56.404	52.253	1.00	26.71
ATOM 1962	С	PRO	1141	72.912	58.874	50.384	1.00	27.84
ATOM 1963	0	PRO	1141	73.231	59.440 🖣	51.432	1.00	29.15
ATOM 1964	N	VAL	1142	72.289	59.483	49.383	1.00	28.51
ATOM 1965	CA	VAL	1142	71.973	60.902	49.385	1.00	27.59
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ATOM 1966	CB	VAL	1142	73.080	61.695	48.640	1.00	26.82
ATOM 1967	CG1	VAL	1142	72.710	63.160	48.504	1.00	25.54
ATOM 1968	CG2	VAL	1142	74.398	61.554	49.368	1.00	24.22
<b>ATOM 1969</b>	С	VAL	1142	70.650	61.047	48.640	1.00	30.42
ATOM 1970	0	VAL	1142	70.465	60.445	47.575	1.00	31.72
ATOM 1971	N	ARG	1143	69.708	61.788	49.220	1.00	32.81 <sup>5</sup>
ATOM 1972	CA	ARG	1143	68.411	62.006	48.580	1.00	33.55
ATOM 1973	CB	ARG	1143	67.282	62.037	49.613	1.00	35.71:
ATOM 1974	CG	ARG	1143	65.903	62.331	49.017	1.00	37.69
ATOM 1975	CD	ARG	1143	65.465	61.288	47.991	1.00	39.30
<b>ATOM 1976</b>	NE	ARG	1143	64.225	61.685	47.311	1.00	43.20
ATOM 1977	CZ	ARG	1143	63.383	60.843	46.711	1.00	43.40
ATOM 1978	NH1	ARG	1143	63.628	59.539	46.696	1.00	43.88
ATOM 1979	NH2	ARG	1143	62.297	61.307	46.108	1.00	43.09
ATOM 1980	C	ARG	1143	68.439	63.320	47.818	1.00	33.27
ATOM 1981	Ö	ARG	1143	68.794	64.353	48.382	1.00	33.50
ATOM 1982	Ň	ARG	1144	68.044	63.280	46.549	1.00	33.18
ATOM 1983	CA	ARG	1144	68.038	64.471	45.709	1.00	34.20
ATOM 1984	CB	ARG	1144	67.725	64.089	44.260	1.00	32.94
ATOM 1985	CG	ARG	1144	68.475	64.900	43.203	1.00	32.47
ATOM 1986	CD	ARG	1144	67.952	64.546	41.815	1.00	32.92
ATOM 1987	NE	ARG	1144	68.924	64.732	40.738	1.00	33.75
ATOM 1988	CZ	ARG	1144	69.459	65.898	40.387	1.00	35.07
ATOM 1989	NH1	ARG	1144	69.125	67.007	41.029	1.00	36.60
ATOM 1990	NH2	ARG	1144	70.321	65.959	39.378	1.00	35.64
ATOM 1990 ATOM 1991	C	ARG	1144	67.001	65.467	46.227	1.00	35.48
ATOM 1991	Ö	ARG	1144	65.825	65.139	46.374	1.00	36.95
ATOM 1992 ATOM 1993	N	ARG	1145	67.449	66.670	46.546	1.00	36.40
ATOM 1993	CA	ARG	1145	66.552	67.700	47.048	1.00	37.95
ATOM 1994 ATOM 1995	CB	ARG	1145	67.025	68.213	48.414	1.00	37.18
ATOM 1995	CG.	ARG	1145	66.975	67.184	49.514	1.00	36.94
ATOM 1990 ATOM 1997	CD	ARG	1145	65.570	66.667	49.681	1.00	38.43
ATOM 1997 ATOM 1998	NE .	ARG	1145	65.447	65.729	50.791	1.00	41.86
ATOM 1998	CZ	ARG	1145	64.341	65.0 <del>4</del> 3	51.062	1.00	43.83
	NH1			63.263	65.187	50.299	1.00	46.04
ATOM 2000 ATOM 2001	NH2	ARG	1145				1.00	45.68
		ARG	1145	64.306 66.507	64.223	52.102		
ATOM 2002	C	ARG	1145	66.507	68.856	46.063	1.00	39.67 42.26
ATOM 2003	0	ARG	1145	66.247	70.000	46.449	1.00	
ATOM 2004	N	GLY	1146	66.789	68.565	44.797	1.00	39.96
ATOM 2005	CA	GLY	1146	66.779	69.605	43.788	1.00	40.13
ATOM 2006	C	GLY	1146	67.932	69.428	42.823	1.00	40.68
ATOM 2007	0	GLY	1146	68.829	68.621	43.061	1.00	41.79
ATOM 2008	N	ALA	1147	67.937	70.228	41.765	1.00	40.55
ATOM 2009	CA	ALA	1147	68.961	70.157	40.733	1.00	39.49
ATOM 2010	CB	ALA	1147	68.890	71.392	39.834	1.00	40.92
ATOM 2011	C	ALA	1147	70.392	69.927	41.214	1.00	38.50
ATOM 2012	0	ALA	1147	71.068	69.024	40.717	1.00	38.36
ATOM 2013	N	SER	1148	70.854	70.721	42.176	1.00	37.84
ATOM 2014	CA	SER	1148	72.222	70.564	42.656	1.00	36.96
ATOM 2015	СВ	SER	1148	73.097	71.732	42.182	1.00	36.77
ATOM 2016	OG	SER	1148	72.690	72.965	42.755	1.00	40.56
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<u>.</u>					됬			
ATOM 2017	С	SER	1148	72.391	70.363	44.156	1.00	36.04
ATOM:2018	0	SER	1148	73.382	70.812	44.734	1.00	36.47
ATOM 2019	Ν	ARG	1149	71.452	69.672	44.788	1.00	34.56
ATOM 2020	CA	ARG	1149	71.575	69.416	46.214	1.00	33.98
ATOM 2021	CB	ARG	1149	70.923	70.518	47.050	1.00	35.91
ATOM 2022	CG	ARG	1149	71.621	70.740	48.397	1.00	40.83
ATOM: 2023	CD	ARG	1149	70.760	71.514	49.389	1.00	44.70
ATOM 2024	NE	ARG	1149	71.544	72.142	50.456	1.00	48.33
ATOM 2025	CZ	ARG	1149	71.832		50.506	1.00	50.37
ATOM 2026	NH1	ARG	1149	71.416	74.266	49.552	1.00	52.98
ATOM 2027	NH2	ARG	1149	72.508	73.941	51.531	1.00	51.44
ATOM €2028	С	ARG	1149	70.981	68.070	46.573	1.00	32.53
ATOM 2029	0	ARG	1149	70.168	67.513	45.833	1.00	32.88
ATOM 2030	N	GLY	1150	71.418	67.54	47.705	1.00	31.86
ATOM 2031	CA	GLY	1150	70.934	66.260	48.171	1.00	29.91
ATOM 2032	С	GLY	1150	71.207	24	49.653	1.00	28.10
ATOM \$2033	0	GLY	1150	72.237	A.	50.137	1.00	29.55
ATOM 2034	N	SER	1151	70.289	ζ,	50.376	1.00	27.99
ATOM 2035	CA	SER	1151	70.439		51.811	1.00	28.25
ATOM 2036	CB	SER	1151	69.072	9.2	52.487	1.00	31.79
ATOM 2037	OG	SER	1151	68.433		52.201	1.00	39.70
ATOM 2038	C	SER	1151	71.071	64.020	52.164	1.00	26.53
ATOM 2039	0	SER	1151	70.653		51.662	1.00	25,17
ATOM 2040	N	LEU	1152	72.089		53.013	1.00	25.87
ATOM 2041	CA	LEU	1152	72.706		53.443		27.78
ATOM 2042	CB	LEU	1152	73.948		54.296	1.00	26.21
ATOM 2043	CG	LEU	1152	75.157		53.627	1.00	24.51
ATOM 2044	CD1	LEU	1152	76.335	63.659	54.564	1.00	23.77
ATOM 2045	CD2	LEU	1152	75.496	63.008	52.343	1.00	25.98
ATOM 2046	C	LEU	1152	71.629	62.147	54.287	1.00	29.68
ATOM 2047	0	LEU	1152	70.965	62.819	55.075	1.00	31.97
ATOM 2048	N	LEU	1153	71.385	60.860	54.065	1.00	31.23
ATOM 2049	CA	LEU	1153	70.372	60.159	54.845	1.00	31.26
ATOM 2050	CB	LEU	1153	69.991	58.836	54.181	1.00	29.73
ATOM 2051	CG	LEU	1153	68.811	58.932	53.215	1.00	27.81
ATOM 2052	CD1	LEU	1153	69.023	60.036	52.193	1.00	29.89
ATOM 2053	CD2	LEU	1153	68.619	57.614	52.528	1.00	28.98
ATOM 2054	C	LEU	1153	70.862	59.933	56.269	1.00	33.19
ATOM 2055 ATOM 2056	0	LEU	1153	70.075	59.670	57.182	1.00	34.12
	N	SER	1154	72.166 70.775	60.072	56.459	1.00	34.74
ATOM 2057	CA	SER	1154	72.775	59.899	57.762	1.00	37.99
ATOM 2058	CB	SER	1154	73.331	58.483	57.903	1.00	40.16
ATOM 2059	OG	SER	1154	72.446	57.531	57.326	1.00	44.40
ATOM 2060	C	SER	1154	73.910	60.907	57.871	1.00	38.37
ATOM 2061	0	SER	1154	74.946	60.743	57.236	1.00	38.18
ATOM 2062	N	PRO	1155	73.694	62.005	58.622	1.00	38.99
ATOM 2063	CD	PRO	1155	72.505	62.296	59.437	1.00	39.19
ATOM 2064	CA	PRO	1155	74.708	63.045	58.805	1.00	38.38
ATOM 2065	CB	PRO	1155	74.098	63.942	59.875	1.00	38.04
ATOM 2066	CG	PRO	1155	73.120	63.040	60.584	1.00	40.36
ATOM 2067	С	PRO	1155	76.048	62.479	59.245	1.00	37.35

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			FIGURE	E 3 (CONT.	)			
ATOM 2068	0	PRO	1155	76.121	61.531	60.044	1.00	36.59
ATOM 2069	N	ARG	1156	77.104	63.088	58.732	1.00	36.29
ATOM 2070		ARG	1156	78.456	62.654	59.023	1.00	35.23
	CB	ARG	1156	79.031	61.956	57.803	1.00	38.13
ATOM 2072	CG	ARG	1156	78.185	60.870	57.211	1.00	41.38 44.77
	CD NE	ARG ARG	1156 1156	78.700 78.123	59.509 58.412	57.644 56.868	1.00 1.00	49.49
	CZ	ARG	1156	78.459	57.129	57.005	1.00	53.79
ATOM 2076		ARG	1156	77.873	56.205	56:252	1.00	54.43
	NH2	ARG	1156	79.403	56.763	57.863	1.00	52.82
ATOM 2078	С	ARG	1156	79.340	63.849	59.255	1.00	34.55
	0	ARG	1156	79. <b>0</b> 66	64.939	58.756	1.00	35.72
	N	PRO	1157	80.443	63.673	59.989	1.00	34.18
ATOM 2081 ATOM 2082	CD CA	PRO PRO	1157 1157	80.899	62.473 64.798	60 707 60 233	1.00 1.00	33.27 33.99
129	† <u> </u>	PRO	1157	81.344 82.419	64.167	61/111	1.00	33.27
A	CG	PRO	1157	81.690	63.074	61.803	1.00	32.25
10		PRO	1157	81.950	65.234	58.898	1.00	35.59
ATOM 2086	0	PRO	1157	82.404	64.393	58.130	1.00	37.92
1/8	N	ILE	1158	81.999	66.527	58 631	1.00	36.57
iz.	CA	ILE	1158	82.542	67.000	57,362	1.00	38.10
	CB CG2	ILE ILE	1158 1158	82. <del>64</del> 7 81.272	68.533 69.140	57.315 57.171	1.00 1.00	38.12 37.34
	CG1	ILE	1158	83.342	69.046	58.573	1.00	41.61
	CD1	ILE ·	1158	83.623	70.540	58.559	1.00	45.60
	C	ILE	1158	83.911	66.408	57.004	1.00	39.96
ATOM 2094	<b>O</b> .	ILE	1158	84.280	66.367	55.828	1.00	41.17
	N	SER	1159	84.642	65.941	58.014	1.00	40.39
	CA	SER	1159	85.959	65.341	57.813	1.00	42.66
_	CB OG	SER	1159 1159	86.575 85.755	64.975 64.035	59.161 59.842	1.00 1.00	45.98 49.77
	C	SER	1159	85.870	64.033	56.955	1.00	42.30
	ŏ	SER	1159	86.779	63.761	56.183	1.00	43.56
	N	TYR	1160	84.779	63.346	57.130	1.00	40.66
ATOM 2102	CA	TYR	1160	84.531	62.121	56.385	1.00	40.36
	CB	TYR	1160	83.137	61.598	56.756	1.00	43.66
	CG	TYR	1160	82.848	60.149	56.423	1.00	47.75
	CD1	TYR	1160	82.086	59.377	57.290	1.00 1.00	50.46 53.68
	CE1 CD2	TYR TYR	1160 1160	81.763 83.293	58.059 59.561	56.991 55.233	1.00	49.34
	CE2	TYR	1160	82.975	58.237	54.922	1.00	51.68
	CZ	TYR	1160	82.205	57.493	55.809	1.00	53.15
	OH	TYR	1160	81.858	56.185	55.528	1.00	54.20
	C	TYR	1160	84.5 <b>6</b> 3	62.464	54.901	1.00	37.91
· ·	0	TYR	1160	85.111	61.715	54.080	1.00	38.62
	N	LEU	1161	84.020	63.632	54.578	1.00	34.26
•	CA CB	LEU	1161 1161	83.932	64.086	53.203 53.018	1.00 1.00	30.68 27.49
ng de	CG	LEU	1161	82.639 81.344	64.889 64.152	53.394	1.00	25.85
.3	CD1	LEU	1161	80.168	65.085	53.276	1.00	25.64
.23	CD2	LEU	1161	81.135	62.931	52.516	1.00	23.54
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ATOM 2119	С	LEU	1161	85.148	64.852	52.675	1.00	30.40
ATOM 2120	0	LEU	1161	85.242	65.106	51.473	1.00	31.18
ATOM 2121	N	ALA	1162	86.094	65.189	53.545	1.00	29.45
ATOM 2122	CA	ALA	1162	87.283	65.919	53.101	1.00	29.15
ATOM 2123	CB	ALA	1162	88.222	66.214	54.281	1.00	29.64
ATOM 2124	C	ALA	1162	88.024	65.140	52.015	1.00	27.83
ATOM 2125	Ö	ALA	1162	88.278	63.937	52.015	1.00	28.97
ATOM 2126	N	GLY		,				
			1163	88.324	65.830	50.922	1.00	26.09
ATOM 2127	CA	GLY	1163	89.032	65.216	49.816	1.00	24.79
ATOM 2128	C	GLY	1163	88.127	64.490	48.845	1.00	22.40
ATOM 2129	0	GLY	1163	88.607	63.799	47.958	1.00	22.88
ATOM 2130	N .	SER	1164	86.819	64.667	48.978	1.00	23.08
ATOM 2131	CA	SER	1164	85.887	63.988	48.091	1.00	23.47
ATOM 2132	CB	SER	1164	84.765	63.336	48.893	1.00	22.44
ATOM 2133	OG	SER	1164	85.308	62.418	49.833	1.00	24.67
ATOM 2134	С	SER	1164	85.314	64.853	46.984	1.00	23.93
ATOM 2135	0	SER	1164	84.470	64.389	46.229	1.00	25.83
ATOM 2136	N	SER	1165	85.762	66.102	46.877	1.00	24.65
ATOM 2137	CA	SER	1165	85.271	66.981	45.815	1.00	24.90
<b>ATOM 2138</b>	CB	SER	1165	85.812	68.401	45.981	1.00	26.62
ATOM 2139	OG	SER	1165	85.674	68.850	47.316	1.00	33.09
ATOM 2140	С	SER	1165	85.756	66.423	44.487	1.00	22.54
ATOM 2141	Ō	SER	1165	86.942	66.152	44.327	1.00	22.12
ATOM 2142	Ň	GLY	1166	84.843	66.286	43.533	1.00	21.99
ATOM 2143	CA	GLY	1166	85.184	65.741	42.232	1.00	19.49
ATOM 2144	C	GLY	1166	84.745	64.288	42.122	1.00	20.47
ATOM 2145	ŏ	GLY	1166	84.756	63.720	41.033	1.00	19.68
ATOM 2146	N	GLY	1167	84.388	63.684	43.258	1.00	20.15
ATOM 2147	CA	GLY	1167	83.928	62.303	43.294	1.00	20.19
ATOM 2147	C	GLY	1167	82.534	62.182	43.2 <del>94</del> 42.712	1.00	20.19
ATOM 2149	Ö	GLY	1167		63.161			21.88
ATOM 2149 ATOM 2150	N			81.798		42.698	1.00	
ATOM 2151	CD -	PRO	1168	82.109	60.986	42.297	1.00	20.02
ATOM 2151		PRO	1168	82.901	59.746	42.208	1.00	20.29
	CA	PRO	1168	80.786	60.792	41.710	1.00	19.44
ATOM 2153	CB	PRO	1168	81.002	59.553	40.851	1.00	21.21
ATOM 2154	CG	PRO	1168	81.880	58.729	41.726	1.00	18.35
ATOM 2155	C	PRO	1168	79.578	60.595	42.611	1.00	19.51
ATOM 2156	0	PRO	1168	79.683	60.068	43.712	1.00	20.28
ATOM 2157	N	LEU	1169	78.427	61.050	42.123	1.00	19.50
ATOM 2158	CA	LEU	1169	77.149	60.852	42.798	1.00	20.76
ATOM 2159	CB	LEU	1169	76.376	62.152	42.977	1.00	18.93
ATOM 2160	CG	LEU	1169	76.583	62.721	44.372	1.00	17.23
ATOM 2161	CD1	LEU	1169	77.483	63.924	44.272	1.00	17.53
ATOM 2162	CD2	LEU	1169	75.255	63.072	44.991	1.00	16.81
ATOM 2163	С	LEU	1169	76.444	59.952	41.807	1.00	21.18
ATOM 2164	0	LEU	1169	76.098	60.381	40.708	1.00	23.71
ATOM 2165	N	LEU	1170	76.336	58.680	42.153	1.00	21.28
ATOM 2166	CA	LEU	1170	75.736	57.702	41.267	1.00	21.46
ATOM 2167	CB	LEU	1170	76.527	56.398	41.356	1.00	17.58
ATOM 2168	CG	LEU	1170	78.027	56.488	41.086	1.00	15.37
ATOM 2169	CD1	LEU	1170	78.700	55.235	41.566	1.00	13.10
2:00				C.	JJ.2JJ	71.000	1.00	13.10
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ATOM 2170	CD2	LEU	1170	78.284	56.702	39.616	1.00	12.53
ATOM 2171	C	LEU	1170	74.265	57.416	41.529	1.00	24.11
ATOM 2172	0 🛴	LEU	1170	73.783	57.534	42.656	1.00	27.04
ATOM 2173	Νij	CYS	1171	73.540	57.104	40.466	1.00	23.89
ATOM 2174	CA	CYS	1171	72.142	56.747	40.592	1.00	26.02
ATOM 2175	CB:	CYS	1171	71.421	56.978	39.265	1.00	26.82
ATOM 2176	SG.	CYS	1171	71.658	55.657	38.066	1.00	28.93
ATOM 2177	C	CYS	1171	72.209	55.250	40.918	1.00	27.13
ATOM 2178	Ŏ.	CYS	1171	73.285	54.648	40.840	1.00	28.91
ATOM 2179		PRO	1172	71.069	54.616	41.243	1.00	27.20
ATOM 2180	N CD	PRO	1172	69.735	55.217	41.411	1.00	26.50
ATOM 2181	CA	PRO	1172	71.033	53.185	41.574	1.00	25.65
ATOM 2182	CB	PRO	1172	69.538	52.912	41.707	1.00	25.61
ATOM 2183	CG	PRO	1172	69.031	54.192	42.263	1.00	28.15
ATOM 2184	C	PRO	1172	71.681	52.239	40.558	1.00	25.57
ATOM 2185	0	PRO	1172	72.227	51.198	40.933	1.00	26.76
ATOM 2186	CON	ALA	1173	71.606	52.576	***	1.00	25.34
ATOM 2187	CA	ALA	1173	71.000	51.729	38.244	1.00	25.38
ATOM 2187	CB:	ALA	1173	72.193		) 5		25.36 25.17
ATOM 2189		ALA	1173	73.678	51.915 51.997	36.936 38.042	1.00	27.51
ATOM 2189	CON	ALA	1173	73.676 74.279	51.997	37.095	1.00	29.05
ATOM 2191	N	GLY		•		1.		29.05 27.48
	CA	GLY	1174	74.253	52.849	38.890	1.00	
ATOM 2192 ATOM 2193		GLY	1174	75.668	53.166	38.787	1.00	27.28
			1174	76.035	54.129	37.673	1.00	26.52
ATOM 2194	0	GLY	1174	77.103	54.029	37.076	1.00	27.07
ATOM 2195	N 1	HIS	1175	75.140 75.407	55.047	37.353	1.00	25.55
ATOM 2196	CA	HIS	1175	75.427	56.016	36.312	1.00	25.00
ATOM 2197	CB	HIS	1175	74.313	56.027	35.281	1.00	26.94
ATOM 2198	CG	HIS	1175	74.268	54.783	34.458	1.00	27.86
ATOM 2199	CD2	HIS	1175	74.317	54.598	33.121	1.00	30.29
ATOM 2200	ND1	HIS	1175	74.228	53.525	35.018	1.00	30.38
ATOM 2201	CE1	HIS	1175	74.254	52.616	34.061	1.00	31.15
ATOM 2202	NE2	HIS	1175	74.310	53.241	32.900	1.00	31.52
ATOM 2203	C	HIS	1175	75.625	57.371	36.955	1.00	24.78
ATOM 2204	0	HIS	1175	75.027	57.656	37.990	1.00	27.48
ATOM 2205	N	ALA	1176	76.473	58.198	36.358	1.00	23.70
ATOM 2206	CA	ALA	1176	76.782	59.506	36.913	1.00	21.48
ATOM 2207	CB	ALA	1176	77.996	60.107	36.210	1.00	20.07
ATOM 2208	C	ALA	1176	75.630	60.492	36.910	1.00	21.16
ATOM 2209	0	ALA	1176	75.016	60.740	35.881	1.00	21.05
ATOM 2210	N :	VAL	1177	75.339	61.036		1.00	20.47
ATOM 2211	CA	VAL	1177	74.286	62.025		1.00	20.12
ATOM 2212	CB	VAL	1177	73.375	61.663	39.454	1.00	22.63
ATOM 2213	CG1	VAL	1177	72.432	62.818	39.789	1.00	21.63
ATOM 2214	CG2	VAL	1177	72.574	60.399	39.141	1.00	20.84
ATOM 2215	C	VAL	1177	74.933	63.402		1.00	20.43
ATOM 2216	0	VAL	1177	74.374	64.436	- 7	1.00	19.45
ATOM 2217	O N CA	GLY	1178	76.136	63.409		1.00	20.41
ATOM 2218	CA 🐇	GLY	1178	76.836	64.661	39.267 💡	1.00	18.90
ATOM 2219	C	GLY	1178	78.153	64.429		1.00	18.98
ATOM 2220	CO	GLY	1178	78 <b>49</b> 9	63.283	40.271 🛴	1.00	19.19

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ATOM 2221	N .	LEU	1179	7	78.887	65.508	40.230	1.00	18.30
ATOM 2222	CA	LEU	1179		80.173	65.435	40.919	1.00	18.00
ATOM 2223	CB	LEU	1179		81.298	66.027	40.054	1.00	12.80
ATOM 2224	CG	LEU	1179		81.484	65.535	38.614	1.00	12.14
ATOM 2225	CD1	LEU	1179		82.733	66.154	38.040	1.00	9.04
ATOM 2226	CD2	LEU	1179	3	81.568	64.034	38.557	1.00	11.17
ATOM 2227	С	LEU	1179	Į.	80.058	66.223	42.221	1.00	18.90
ATOM 2228	0	LEU	1179	j.	79.564	67.344	42.223	1.00	23.62
ATOM 2229	N	PHE	1180		80.476	65.632	43.332	1.00	19.19
ATOM 2230	CA	PHE	1180	, iri	80.418	66.301	44.625	1.00	19.90
ATOM 2231	СВ	PHE	1180	沙江	80.994	65.370	45.692	1.00	18.26
ATOM 2232	CG	PHE	1180	Ċ.	81.071	65.968	47.070	1.00	18.11
ATOM 2233	CD1	PHE	1180	¥.	82.281	66.015	47.752	1.00	18.51
ATOM 2234	CD2	PHE	1180		79.936	66.426	47.714	1.00	18.19
ATOM 2235	CE1	PHE	1180		82.357	66.504	49.054	1.00	15.60
ATOM 2236	CE2	PHE	1180	Į.	80.013	66.916	49.020	1.00	18.73
ATOM 2237	CZ	PHE	1180		81.226	66.951	49.683	1.00	14.64
ATOM 2238	C	PHE	1180	× 4	81.225	67.594	44.552	1.00	21.74
ATOM 2239	ŏ	PHE	1180	To the said of	82.397	67.565	44.195	1.00	23.00
ATOM 2240	Ň	ARG	1181	160	80.583	68.727	44.826	1.00	24.80
ATOM 2241	CA	ARG	1181	7.02	81.270	70.020	44.800	1.00	26.34
ATOM 2242	CB	ARG	1181		80.427	71.116	44.144	1.00	26.66
ATOM 2243	CG	ARG	1181	學	81.215	72.411	43.959	1.00	29.11
ATOM 2244	CD	ARG	1181	32	80.365	73.532	43.425	1.00	33.23
ATOM 2245	NE ·	ARG	1181	į.	79.368	73.951	44.403	1.00	39.30
ATOM 2245	CZ	ARG	1181	 :	78.054	73.952	44.189	1.00	41.81
ATOM 2240	NH1	ARG	1181		77.559	73.555	43.020	1.00	42.79
ATOM 2247	NH2	ARG	1181		77.231	74.345	45.158	1.00	44.71
ATOM 2248	C	ARG	1181	ξ.	81.636	74.345	46.200	1.00	26.61
ATOM 2249	Ö	ARG	1181		82.801	70.745	46.485	1.00	29.02
ATOM 2251	N	ALA	1182		80.641	70.743	47.069	1.00	26.67
ATOM 2251	CA	ALA	1182						
ATOM 2252 ATOM 2253	CB	ALA	1182		80.892	71.008	48.426	1.00	27.49
	_				80.867	72.513	48.493	1.00	29.65
ATOM 2254 ATOM 2255	0	ALA ALA	1182 1182		79.855	70.427	49.358	1.00	28.32
ATOM 2256	N	ALA	1183		78.764	70.072	48.926	1.00	28.73
ATOM 2256 ATOM 2257					80.200	70.327	50.634	1.00	28.98
	CA	ALA	1183		79.281	69.787	51.622	1.00	32.58
ATOM 2258 ATOM 2259	CB	ALA	1183		80.030	68.926	52.633	1.00	33.65
	C	ALA	1183		78.544	70.906	52.333	1.00	34.36
ATOM 2260	0	ALA	1183		79.093	71.991	52.541	1.00	34.73
ATOM 2261	N	VAL	1184		77.290	70.635	52.680	1.00	36.46
ATOM 2262	CA	VAL	1184		76.437	71.577	53.388	1.00	37.51
ATOM 2263	CB	VAL	1184	~,	75.019	71.572	52.816	1.00	36.89
ATOM 2264	CG1	VAL	1184		74.119	72.441	53.663	1.00	36.81
ATOM 2265	CG2	VAL	1184	~	75.033	72.041	51.373	1.00	36.21
ATOM 2266	C	VAL	1184		76.375	71.110	54.830	1.00	39.28
ATOM 2267	0	VAL	1184		75.844	70.041	55.116	1.00	39.09
ATOM 2268	N	CYS	1185	1	76.875	71.927	55.744	1.00	44.38
ATOM 2269	CA	CYS	1185	.27	76.895	71.546	57.148	1.00	48.30
ATOM 2270	CB	CYS	1185	(8)	78.232	70.868	57.450	1.00	51.20
ATOM 2271	SG	CYS	1185	T.	79.678	71.835	56.911	1.00	61.55
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1	<b>ATOM 2272</b>	С	CYS	1185	76.654	72.660	58.166	1.00	47.66
1	<b>ATOM 2273</b>	O	CYS	1185	76.474	73.830	57.821	1.00	48.84
1	<b>ATOM 2274</b>	∂N	ALA	1186	76.674	72.263	59.432	1.00	46.42
1	<b>ATOM 2275</b>	CA	ALA	1186	76.482	73.153	60.563	1.00	45.62
1	<b>ATOM 2276</b>	CB	ALA	1186	75.005	73.436	60.755	1.00	46.93
1	<b>ATOM 2277</b>	С	ALA	1186	77.026	72.370	61.748	1.00	45.29
1	<b>ATOM 2278</b>	O	ALA	1186	76.737	71.184	61.888	1.00	44.78
1	<b>ATOM 2279</b>	€N	ARG	1187	77.857	73.014	62.563	1.00	44.52
	ATOM 2280		ARG	1187	78.468	72.364	63.726	1.00	43.45
	ATOM 2281	СВ	ARG	1187	77.415	71.680	64.617	1.00	45.37
	ATOM 2282	~*;	ARG	1187	76.904	72.544	65.761	1.00	46.88
	ATOM 2283		ARG	1187	76.224	73.789	65.243	1.00	49.61
	ATOM 2284	ΝE	ARG	1187	76.134	74.839	66.250	1.00	49.41
	ATOM 2285	CZ	ARG	1187	75.294	75.867	66.178	1.00	50.80
	<b>ATOM 2286</b>	NH1	ARG	1187	74.461	75.988	65.148	1.00	50.93
	ATOM 2287	NH2	ARG	1187	75.280	76.772	67.146	1.00	50.83
/	ATOM 2288	C	ARG	1187	79.510	71.347	63.290	1.00	41.49
	ATOM 2289	O	ARG	1187	79.995	70.557	64.098	1.00	43.20
/	<b>ATOM 2290</b>	N	GLY	1188	79.879	71.389	62.015	1.00	38.92
1	ATOM 2291	CA	GLY	1188	80.864	70.451	61.515	1.00	36.42
1	<b>ATOM 2292</b>	С	GLY	1188	80.282	69.107	61.126	1.00	34.79
1	<b>ATOM 2293</b>	0	GLY	1188	81.029	68.157	60.914	1.00	37.40
1	<b>ATOM 2294</b>	N	VAL	1189	78.960	69.014	61.037	1.00	32.66
1	<b>ATOM 2295</b>	CA	VAL	1189	78.303	67.771	60.653	1.00	30.43
1	ATOM 2296	CB	VAL	1189	77.228	67.334	61.689	1.00	31.40
1	<b>ATOM 2297</b>	CG1	VAL	1189	76.468	66.111	61.199	1.00	31.51
	ATOM 2298		VAL	1189	77.872	67.017	63.018	1.00	33.33
	ATOM 2299	C	VAL	1189	77.628	68.016	59.311	1.00	31.53
	ATOM 2300		VAL	1189	76.740	68.867	59.203	1.00	31.66
	ATOM 2301	iN	ALA	1190	78.101	67.315	58.285	1.00	30.61
	ATOM 2302		ALA	1190	77.567	67.420	56.932	1.00	29.84
	ATOM 2303		ALA	1190	78.511	66.754	55.956	1.00	29.82
	ATOM 2304	·C	ALA	1190	76.198	66.760	56.856	1.00	31.17
	ATOM 2305		ALA	1190	76.073	65.552	57.075	1.00	33.60
	ATOM 2306		ALA	1191	75.174	67.545	56.542	1.00	29.63
	ATOM 2307		ALA	1191	73.821	67.021	56.443	1.00	27.51
	ATOM 2308		ALA	1191	72.880	67.836	57.313	1.00	27.97
	ATOM 2309	C	ALA	1191	73.334	66.997	55.000	1.00	28.18
	ATOM 2310		ALA	1191	72.409	66.253	54.668	1.00	31.13
	ATOM 2311	N	ALA	1192	73.962	67.793	54.138	1.00	26.71
	ATOM 2312	CA	ALA	1192	73.594	67.853	52.721	1.00	24.73
	ATOM 2313	СВ	ALA	1192	72.674	69.024	52.449	1.00	25.63
	ATOM 2314	C	ALA	1192	74.858	68.002	51.909	1.00	24.75
	ATOM 2315	0	ALA	1192	75.935	68.200	52.473	1.00	23.68
	ATOM 2316	N	VAL	1193	74.738	67.893	50.591	1.00	25.76
	ATOM 2317	CA	VAL	1193	75.897	68.017	49.712	1.00	26.76
	ATOM 2318	CB	VAL	1193	76.503	66.627	49.325	1.00	27.03
	ATOM 2319	CG1	VAL	1193	76.940	65.861	50.566	1.00	26.31
	ATOM 2320	CG2	VAL	1193	75.512	65.807	48.515	1.00	27.41
	ATOM 2321	ပ္ပ	VAL	1193	75.569	68.756	48.425	1.00	27.01
-	ATOM 2322	O	VAL	1193	74.608	68.413	47.735	1.00	27.50

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ATOM 2328 ATOM 2329 C ATOM 2330 O ATOM 2331 N ATOM 2332 C ATOM 2333 C ATOM 2334 C ATOM 2335 C ATOM 2336 C ATOM 2337 C ATOM 2338 C ATOM 2339 C ATOM 2340 C ATOM 2341 O ATOM 2342 N ATOM 2343 C ATOM 2343 C ATOM 2344 C ATOM 2345 C ATOM 2346 C ATOM 2347 C ATOM 2348 C ATOM 2348 C ATOM 2349 O ATOM 2349 O ATOM 2350 C ATOM 2351 C C ATOM 2351 C C ATOM 2353 C C ATOM 2353 C C ATOM 2354 C C C ATOM 2355 C C ATOM 2356 C C ATOM 2357 C C C ATOM 2358 C C C C C C C C C C C C C C C C C C C	ASPPPPPPHEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	1194 1194 1194 1194 1194 1195 1195 1195	76.333 76.180 76.750 75.836 76.335 74.626 76.958 78.163 76.296 76.976 76.625 75.185 74.748 74.268 73.417 72.935 72.510 76.755 75.898 77.572 77.521 78.946 78.903 79.804 81.283 76.753 77.240 75.525 74.778 74.718 73.466 73.360 75.444 76.143 75.267 75.923 75.541 76.318 75.869 75.583 76.397 74.394 73.954 72.610 74.970	69.807 70.587 71.995 72.906 73.953 72.590 69.895 69.650 69.650 69.650 69.691 66.736 66.684 66.736 66.684 66.556 69.592 70.452 69.181 69.679 69.790 70.308 70.682 70.593 68.658 67.552 68.993 70.230 68.900 69.780 67.751 68.679 64.392 64.392 64.392 67.741 68.718 69.294 69.294 69.294 69.294 69.294 69.294 69.294 69.294 69.294 69.294 69.294 69.294 69.294 69.294 69.294 69.294 69.294 69.295 70.223 71.280 71.223 72.442 73.075	48.146 46.926 47.109 47.907 48.389 48.041 45.817 45.964 44.701 43.599 43.546 41.650 44.005 42.689 42.244 42.076 41.285 39.354 37.923 40.255 39.354 37.923 40.255 39.354 37.571 38.748 36.557 36.011 36.044 37.759 33.754 33.754 33.754 33.754 33.754 33.754 33.754 33.754 33.759 33.757 33.671 35.789 36.828	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	26.41 27.71 30.91 34.47 36.98 35.44 26.74 24.78 23.09 21.38 20.66 21.45 24.27 24.48 23.52 22.71 24.48 21.53 24.50 24.02 24.02 24.02 24.74 25.57 26.89 27.91 32.86 32.86

WO 98/11 <b>134</b>			,	52/60		PCT	/US97/16	182
			FI	<i>52/60</i> GURE 3 (CONT.	.)	Ž.		
ATOM 2374	ND2	ASN	1200	74.602	72.337	35.246	1.00	25.16
ATOM 2375	C	ASN	1200	77.828	70.842	32.907	1.00	26.50
ATOM 2376	0	ASN	1200	78.544	71.681	32.358	1.00	25.46
ATOM 2377	N	LEU	1201	78.063	69.531	32.844	1.00	27.79
ATOM 2378 ATOM 2379	CA CB	LEU	1201 1201	79.213 79.400	68.977 67.488	32.125 32.437	1.00 1.00	27.44 27.76
ATOM 2379 ATOM 2380	CG	LEU	1201	79.560	67.466	32.437	1.00	27.76
ATOM 2381	CD1	LEU	1201	79.793	65.564	33.955	1.00	28.46
ATOM 2382	CD2	LEU	1201	80.703	67.790	34.548	1.00	24.26
ATOM 2383	C	LEU	1201	79.021	69.163	30.627	1.00	26.96
ATOM 2384	Ō	LEU	1201	79.891	69.694	29.946	1.00	26.74
ATOM 2385	N	GLU	1202	77.864	68.752	30.125	1.00	27.76
ATOM 2386	CA	GLU	1202	77.555	68.886	28.703	1.00	30.15
ATOM 2387	CB	GLU	1202	76.207	68.237	28.404	1.00	35.17
ATOM 2388	CG	GLU	1202	75.915	68.080	26.912	1.00	42.07
ATOM 2389	CD	GLU	1202	76.742	66.985	26.247	1.00	45.05
ATOM 2390	OE1	GLU	1202	76.867	65.882	26.837	1.00	45.05
ATOM 2391	OE2	GLU	1202	77.253	67.232	25.129	1.00	48.05
ATOM 2392 ATOM 2393	C	GLU GLU	1202	77.530	70.362	28.311	1.00	27.55
ATOM 2393 ATOM 2394	O N	THR	1202 1203	77.988 76.989	70.746 71.182	27.239 29.200	1.00 1.00	26.78 27.54
ATOM 2395	CA	THR	1203	76.969	72.618	28.997	1.00	28.52
ATOM 2396	CB	THR	1203	76.183	73.278	30.168	1.00	29.70
ATOM 2397	OG1	THR	1203	74.814	72.848	30.179	1.00	31.63
ATOM 2398	CG2	THR	1203	76.248	74.787	30.066	1.00	30.94
ATOM 2399	C	THR	1203	78.336	73.175	28.923	1.00	30.35
ATOM 2400	0	THR	1203	78.630	74.038	28.099	1.00	31.87
ATOM 2401	N	THR	1204	79.204	72.693	29.810	1.00	30.89
ATOM 2402	CA	THR	1204	80.597	73.126	29.839	1.00	30.06
ATOM 2403	CB	THR	1204	81.325	72.545	31.070	1.00	27.84
ATOM 2404	OG1	THR	1204	80.789	73.148	32.254	1.00	28.92
ATOM 2405 ATOM 2406	CG2	THR	1204	82.823	72.804	31.010	1.00	26.94
ATOM 2406 ATOM 2407	C O	THR THR	1204 1204	81.329 82.238	72.732 73.435	28.551 28.113	1.00 1.00	31.06 31.97
ATOM 2408	N	MET	1204	80.918	73.433 71.622	27.940	1.00	30.02
ATOM 2409	CA	MET	1205	81.545	71.155	26.710	1.00	29.36
ATOM 2410	СВ	MET	1205	81.286	69.670	26.503	1.00	26.89
ATOM 2411	CG	MET	1205	81.846	68.816	27.605	1.00	26.79
ATOM 2412	SD	MET	1205	81.869	67.096	27.164	1.00	25.34
ATOM 2413	CE	MET	1205	80.165	66.684	27.336	1.00	26.80
ATOM 2414	С	MET	1205	81.101	71.927	25.480	1.00	30.12
ATOM 2415	0	MET	1205	81.795	71.910	24.463	1.00	31.11
ATOM 2416	N	ARG	1206	79.944	72.582	25.560	1.00	32.04
ATOM 2417	CA	ARG	1206	79.425	73.372	24.443	1.00	32.33
ATOM 2418	CB	ARG	1206	77.898	73.466	24.509	1.00	33.91
ATOM 2419 ATOM 2420	CG	ARG	1206	77.180	72.147	24.315	1.00	36.45
ATOM 2420 ATOM 2421	CD NE	ARG ARG	1206 1206	75.689	72.368	24.083	1.00 1.00	39.82 44.02
ATOM 2421 ATOM 2422	CZ	ARG	1206	74.994 74.337	72.858 72.082	25.274 26.140	1.00	44.02 44.21
ATOM 2423	NH1	ARG	1206	74.337 74.272	72.062 70.767	25.962	1.00	41.77
ATOM 2424	NH2	ARG	1206	73.760	72.623	27.207	1.00	44.77



ATOM 2425 C ARG 1206 80.030 74.780 24.404 1.00 31.71 ATOM 2426 O ARG 1206 80.163 75.405 25.487 1.00 33.75

### sNS4ACOORDINATES (Complex B)

Atom								:
Type		#	<u>X</u>	Y	<u>Z</u>	OCC	<u>B</u>	:
ATOM 2535	CB	ĒΥS	1677	101.069	76.195	38.823	1.00	42.61
ATOM 2536	CG	LYS	1677	100.696	76.412	40.284	1.00	45.42
ATOM 2537	CD	LYS	1677	99.373	77.170	40.435	1.00	48.57
ATOM 2538	CE	LYS	1677	99.221	77.735	41.859	1.00	50.16
ATOM 2539	NZ	LYS	1677	97.898	78.400	42.112	1.00	51.22
ATOM 2540	С	LYS	167 <b>7</b>	102.635	74.294	38.331	1.00	39.53
ATOM 2541	0	LYS	1677	102.747	73.868	37.171	1.00	39.44
ATOM 2542	N	LYS	1677	103.162	76.602	37.521	1.00	40.63
ATOM 2543	CA	LYS	1677	102.536	75.793	38.615	1.00	40.89
ATOM 2544	N	GLY	1678	102.595	73.497	39.393	1.00	37.81
ATOM 2545	CA	GLY	1678	102.708	72.057	39.240	1.00	34.76
ATOM 2546	С	GLY	1678	101.509	71.417	38.576	1.00	31.90
ATOM 2547	0	GLY	1678	100.461	72.045	38.430	1.00	31.54
ATOM 2548	N	SER	1679	101.684	70.181	38.126	1.00	28.52
ATOM 2549	CA	SER	1679	100.606	69.443	37.497	1.00	25.57
ATOM 2550	CB	SER	1679∜	101.167	68.417	36.506	1.00	26.14
ATOM 2551	OG	SER	1679	101.609	69.016	35.303	1.00	24.59
ATOM 2552	C	SER	1679	99.807	68.703	38.562	1.00	24.40
ATOM 2553	0	SER	1679;	100.280	68.506	39.688	1.00	24.38
ATOM 2554	N	VAL	1680	98.574	68.346	38.219	1.00	23.52
ATOM 2555	CA	VAL	1680	97.724	67.576	39.106	1.00	21.39
ATOM 2556	CB	VAL	1680	96.252	67.694	38.697	1.00	21.22
ATOM 2557	CG1	VAL	1680	95.392	66.728	39.493	1.00	19.38
ATOM 2558	CG2	VAL	1680	95.784	69.112	38.932	1.00	21.01
ATOM 2559	C	VAL	1680	98.230	66.158	38.894	1.00	20.14
ATOM 2560	0	VAL	1680	98.478	65.754	37.754	1.00	18.28
ATOM 2561	N	VAL	1681	98.463	65.442	39.990	1.00	20.40
ATOM 2562	CA.	VAL	1681 1681	98.990	64.085	39.922	1.00	20.62
ATOM 2563 ATOM 2564	CB CG1	VAL VAL	1681	100.343	63.971	40.678	1.00	18.90
ATOM 2565	CG2	VAL	1681	100.968 101.283	62.616 65.039	40.454	1.00 1.00	19.40 20.79
ATOM 2566	C	VAL	1681	98.050		40.231		20.79
ATOM 2567	ŏ	VAL	1681	97.459	63.055 63.277	40.522 41.584	1.00 1.00	19.23
ATOM 2568	N	ILE	1682	97.956	61.910			
ATOM 2569	CA		1682			39.850 40.304	1.00	22.25
ATOM 2509 ATOM 2570	CB	ILE	1682	97.134 96.701	60.795		1.00	22.27 18.88
ATOM 2570	CG2	ILE	1682	96.791 96.052	59.853	39.125	1.00	19.14
ATOM 2571	CG1	ILE	1682	95.940	58.633 60.597	39.627 38.094	1.00 1.00	17.33
ATOM 2572	CD1	ILE	1682	95.611	59.800	36.862	1.00	14.03
ATOM 2573	C	ILE	1682	97.926	60.028	41.376	1.00	23.98
ATOM 2574 ATOM 2575	Ö	ILE	1682	98.998	59.474	41.090	1.00	24.49
ATOM 2576	N	VAL	1683	97.425	60.045	42.611	1.00	24.49
ATOM 2577	CA	VAL	1683 <sub>8</sub>	98.074	59.345	43.724	1.00	22.87
ATON 23//		v AL	1000	30.074	J3.J45	40.724	1.00	22.07

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ATOM 2578	CB	VAL	1683	98.294	60.273	44.960	1.00	20.49
ATOM 2579	CG1	VAL	1683	99.218	61.422	44.602	1.00	21.14
ATOM: 2580	CG2	VAL	1683	96.986	60.787	45.493	1.00	15.48
ATOM, 2581	С	VAL	1683	97.319	58.086	44.177	1.00	22.99
ATOM: 2582	0	VAL	1683	97.667	57.470	45.190	1.00	25.32
ATOM 2583	N	GLY	1684	96.294	57.704	43.423	1.00	22.53
ATOM 2584	CA	GLY	1684	95.515	56.527	43.757	1.00	21.02
ATOM 2585	C	GLY	1684	94.291	56.452	42.870	1.00	21.67
ATOM 2586	0	GLY	1684	94.144	57.267	41.956	1.00	21.86
ATOM 2587	N	ARG	1685	93.399	55.507	43.154	1.00	22.35
ATOM 2588	CA	ARG	1685	92.177	55.327	42.369	1.00	19.90
ATOM 2589	CB	ARG	1685	92.449	54.463	41.150	1.00	20.04
ATOM 2590	CG	ARG	1685	93.003	53.105	41.516	1.00	22.48
ATOM 2591	CD	ARG	1685	93.157	52.240	40.296	1.00	26.67
ATOM 2592 ATOM 2593	NE CZ	ARG ARG	1685 1685	94.237	51.27	40.446	1.00	28.97
ATOM 2593	NH1	ARG	1685	95.485 95.815	51.487 52.632	40.048	1.00	27.79
ATOM 2594	NH2	ARG	1685	96.404	52.632 50.557	39.474 40.224	1.00 1.00	27.86 29.00
ATOM 2596	C	ARG	1685	91.113	54.636	43.185	1.00	20.01
ATOM 2597	ŏ	ARG	1685	91.404	54.035	44.218	1.00	22.88
ATOM 2598	Ň	ILE	1686	89.882	54.703	42.697	1.00	18.51
ATOM 2599	CA	ILE	1686	88.745	54.066	43.346	1.00	17.38
ATOM:2600	CB	ILE	1686	87.823	55.120	43.985	1.00	15.63
ATOM 2601	CG2	ILE	1686	86.464	54.533	44.292	1.00	14.38
ATOM 2602	CG1	ILE	1686	88.496	55.665	45.251	1.00	14.48
ATOM 2603	CD1	ILE	1686	87.740	56.758	45.935	1.00	14.17
ATOM ,2604	С	ILE	1686	88.043	53.247	42.268	1.00	17.71
ATOM 2605	0	ILE	1686	87.699	53.769	41.205	1.00	17.73
ATOM 2606	N	VAL	1687	87.945	51.940	42.484	1.00	16.52
ATOM 2607	CA	VAL	1687	87.325	51.073	41.493	1.00	14.59
ATOM 2608	CB	VAL	1687	88.152	49.810	41.237	1.00	13.39
ATOM 2609	CG1	VAL	1687	87.509	48.980	40.145	1.00	11.21
ATOM 2610	CG2	VAL	1687	89.564	50.184	40.842	1.00	11.10
ATOM 2611	C	VAL	1687	85.922	50.681	41.874	1.00	15.40
ATOM 2612	0	VAL	1687	85.695	50.067	42.916	1.00	17.30
ATOM 2613	N	LEU	1688	84.990	51.081	41.016	1.00	16.16
ATOM 2614	CA	LEU	1688	83.566	50.827	41.171	1.00	15.94
ATOM 2615	CB	LEU	1688	82.792	52.003	40.578	1.00	14.08
ATOM 2616 ATOM 2617	CG	LEU	1688	82.936	53.300	41.365	1.00	15.70
ATOM 2617 ATOM 2618	CD1 CD2	LEU	1688	82.611	54.511	40.519	1.00	15.92
ATOM 2619	CDZ	LEU	1688 1688	82.026 83.129	53.212	42.559	1.00	18.17
ATOM 2620	Ö	LEU	1688	82.209	49.532 48.856	40.481	1.00	17.97
ATOM 2621	N	SER	1689			40.939	1.00	20.09
ATOM 2622	CA	SER	1689	83.826	49.174	39.406	1.00	20.02
ATOM 2623	CB	SER	1689	83.518 84.253	47.982 48.060	38.611	1.00	21.75
ATOM 2624	OG	SER	1689			37.266	1.00	23.96
ATOM 2625	C	SER	1689	85.605 83.749	48.467	37.436	1.00	27.29
ATOM 2626	Ö	SER	1689	83.290	46.603 45.596	39.243 38.700	1.00 1.00	21.43 23.26
ATOM 2627	N	GLY	1690	84.465	46.547	40.364	1.00	23.26
ATOM 2628	CA	GLY	1690	84.724	45.277	41.015	1.00	19.68
	٠,٠		. 300	V 1.727	70.27	71.010	1.00	13.00
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ATOM 2629	Ċ	GLY	1690	83.431	44.657	41.500	1.00	21.01
ATOM 2630	0	GLY	<sup>3</sup> 1690	82.452	45.367	41.741	1.00	20.02
ATOM 2631	N	LYS	1691	83.419	43.334	41.618	1.00	22.40
ATOM 2632 ATOM 2633	CA CB	LYS LYS	21691 ₹1691	82.245 81.621	42.596 41.838	42.075 40.901	1.00 1.00	25.78 30.22
ATOM 2634	CG	LYS	1691	81.068	42.740	39.813	1.00	38.96
ATOM 2635	CD	LYS	1691	80.651	41.947	38.575	1.00	46.14
ATOM 2636	CE	LYS	§1691	80.270	42.880	37.405	1.00	49.42
ATOM 2637	NZ	LYS	1691	79.814	42.127	36.186	1.00	50.87
ATOM 2638	C	LYS	1691	82.705	41.610	43.142	1.00	25.02
ATOM 2639	0 N	LYS PRO	1691 1692	83.885 81.796	41.254	43.176 44.031	1.00	26.26 23.86
ATOM 2640 ATOM 2641	CD	PRO	1692	80.365	41.167 41.516	44.115	1.00 1.00	25.86 25.36
ATOM 2642	CA	PRO	1692	82.157	40.217	45.088	1.00	23.51
ATOM 2643	CB	PRO	1692	80.801	39.691	45.542	.1.00	23.49
ATOM 2644	CG	PRO	<b>§1692</b>	79.954	40.911	45.451	1.00	24.91
ATOM 2645	, C	PRO	1692	83.027	39.095	44.548	1.00	23.24
ATOM 2646 ATOM 2647	0 N	PRO ALA	1692 1693	82.724 84.136	38.506 38.831	43.515 45.219	1.00 1.00	25.88 21.89
ATOM 2648	CA	ALA	1693	85.035	37.787	44.780	1.00	21.05 21.26
ATOM 2649	CB	ALA	1693	86.173	38.383	43.989	1.00	21.74
ATOM 2650	С	ALA	1693	85.568	37.089	46.000	1.00	22.42
ATOM 2651	0	ALA	<sup>2</sup> 1693	85.708	37.705	47.055	1.00	24.98
ATOM 2652	N	ILE	\$1694	85.810	35.791	45.879	1.00	22.49
ATOM 2653 ATOM 2654	CA CB	ILE	1694 1694	86.342 86.052	35.020 33.524	46.989 46.794	1.00 1.00	21.65 20.10
ATOM 2655	CG2	ILE	1694	86.718	32.714	47.873	1.00	22.22
ATOM 2656	CG1	ILE	1694	84.539	33.293	46.829	1.00	20.16
ATOM 2657	CD1	ILE	1694	84.133	31.872	46.593	1.00	19.23
ATOM 2658	C	ILE	1694		35.311	46.999	1.00	22.06
ATOM 2659 ATOM 2660	0 N	ILE	1694 1695	88.506 88.336	35.118 35.837	45.988 48.109	1.00 1.00	25.81 21.38
ATOM 2661	CA	ILE	1695	89.748	36.181	48.194	1.00	19.73
ATOM 2662	СВ	ILE	1695	90.112	36.812	49.557	1.00	16.79
ATOM 2663	CG2	ILE	1695	91.550	37.296	49.533	1.00	16.53
ATOM 2664	CG1	ILE	1695	89.209	38.009	49.853	1.00	11.03
ATOM 2665 ATOM 2666	CD1 ·	ILE	1695 1695	89.480 90.596	38.658 34.943	51.192 47.947	1.00 1.00	8.12 22.82
ATOM 2667	ŏ	ILE	1695	90.498	33.954	48.669	1.00	22.97
ATOM 2668	N	PRO	1696	91.407	34.967	46.886	1.00	26.75
ATOM 2669	CD	PRO	1696	91.564	36.085	45.940	1.00	28.08
ATOM 2670	CA	PRO	1696	92.279	33.851	46.520	1.00	30.50
ATOM 2671	CB	PRO	1696	93.080	34.418	45.354	1.00	29.24
ATOM 2672 ATOM 2673	CG C	PRO PRO	1696 1696	92.138 93.207	35.395 33.490	44.733 47.662	1.00 1.00	28.73 36.92
ATOM 2674	Ö	PRO	1696	93.659	34.371	48.402	1.00	37.43
ATOM 2675	N	LYS	1697	93.454	32.191	47.824	1.00	42.85
ATOM 2676	CA	LYS	1697	94.356	31.692	48.863	1.00	46.97
ATOM 2677	CB	LYS	1697	93.938	30.284	49.314	1.00	48.62
ATOM 2678	CG	LYS LYS	1697 1697	92.480	30.143	49.712	1.00	52.72 54.54
ATOM 2679	CD	LIO	Ş-	92.325	29.631	51.139	1.00	r-
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FIGURE	56/60 3 (CONT.)	

ATOM 2680	CE	LYS	1697	90.885	29.167	51.394	1.00	56.49
<b>ATOM 2681</b>	NZ	LYS	1697	90.578	27.847	50.749	1.00	59.20
ATOM 2682	С	LYS	1697	95.789	31.645	48.311	1.00	48.94
ATOM 2683	0	LYS	1697	96.588	32.540	48.661	1.00	50.95

## ZINC ION COORDINATES

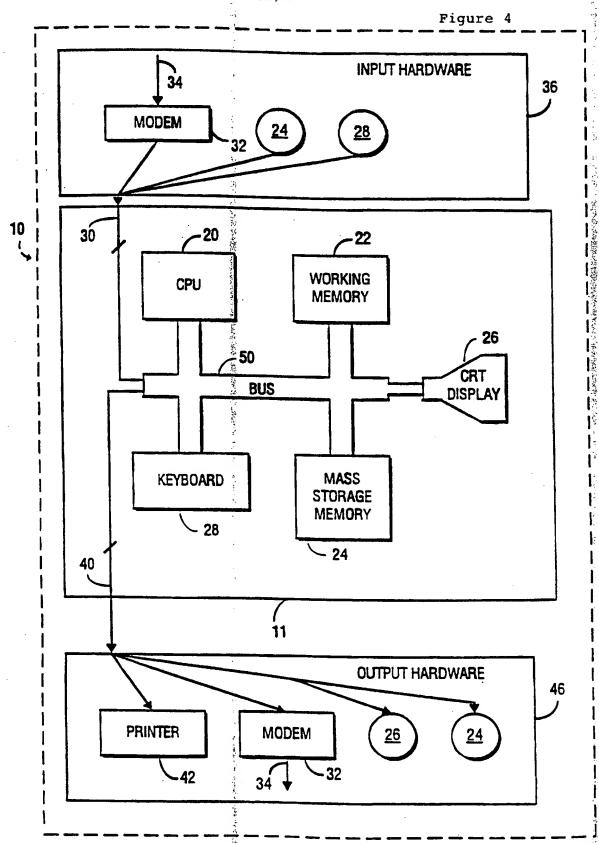
: Ato	TI						-	
Typ	e Resid	# X	Υ	Z	OCC	B	•	
ATOM 268		ŽN –	901		51.399	51. <del>9</del> 75	1.00	29.52
<b>ATOM 268</b>	5 <b>ZN</b>	ZN	902	70.157	§56.302	36.264	1.00	32.22

# WATERMOLECULE COORDINATES

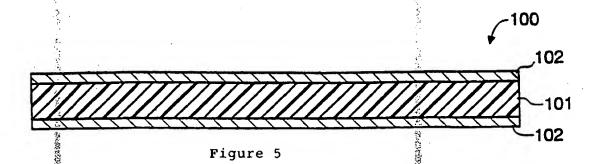
24 24	A +					3			
	Atom	Daaid	ш V	V	7	OCC	D		
	Type	Resid	# <u>X</u>	<u>Y</u>	<u>Z</u>	# <del></del>	<u>B</u>	4.00	14.01
ATOM		OH2	TIP3	1	80.188	51.569	51.895	1.00	14.91
ATOM		OH2	TIP3	2	84.436	50.278	50.706	1.00	27.51
ATOM		OH2	TIP3	3	80.360	48.626	54.069	1.00	26.47
ATOM		OH2	TIP3	4	90.933	33.696	52.289	1.00	23.43
MOTA		OH2	TIP3	5	72.460	27.233	53.507	1.00	26.41
ATOM		OH2	TIP3	6	87.098	§37.167	56.456	1.00	35.13
MOTA		OH2	TIP3	7	80.196	47.990	42.389	1.00	32.46
ATOM	2693	OH2	TIP3	8	80.634	37.946	41.797	1.00	15.54
ATOM	2694	OH2	TIP3	9	91.083	45.806	52.787	1.00	17.30
MOTA		OH2	TIP3	10	85.712	<sup>?</sup> 53.247	29.331	1.00	28.74
MOTA	2696	OH2	TIP3	11	89.054	50.366	50.031	1.00	18.47
<b>ATOM</b>	2697	OH2	TIP3	12	79.767	46.999	50.439	1.00	24.04
<b>ATOM</b>	2698	OH2	TIP3	13	79.409	63.138	26.964	1.00	33.09
MOTA	2699	OH2	TIP3	14	79.565	49.986	49.688	1.00	26.32
ATOM	2700	OH2	TIP3	15	88.908	25.285	68.030	1.00	19.71
MOTA	2701	OH2	TIP3	16	59.074	46.155	52.416	1.00	29.76
MOTA	2702	OH2	TIP3	17	83.621	37.213	41.479	1.00	44.52
<b>ATOM</b>	2703	OH2	TIP3	18	59.694	46.148	55.800	1.00	34.49
<b>ATOM</b>	2704	OH2	TIP3	19	94.223	75.564	42.730	1.00	38.61
<b>ATOM</b>	2705	OH2	TIP3	20	66.565	41.471	68.855	1.00	40.67
<b>ATOM</b>	2706	OH2	TIP3	21	94.230	39.125	44.532	1.00	37.61
<b>ATOM</b>	2707	OH2	TIP3	22	63.801	32.294	63.606	1.00	24.75
<b>ATOM</b>	2708	OH2	TIP3	23	85.565	24.399	71.908	1.00	34.81
ATOM	2709	OH2	TIP3	24	78.876	64.139	29.678	1.00	39.51
ATOM	2710	OH2	TIP3	25	82.850	28.849	47.546	1.00	25.28
ATOM	2711	OH2	TIP3	28	69.172	69.500	51.903	1.00	30.62
ATOM		OH2	TIP3	29	66.988	51.499	56.187	1.00	30.20
ATOM		OH2	TIP3	30	91.719	42.057	60.299	1.00	31.11
ATOM		OH2	TIP3	31	77.543	29.196	41.350	1.00	55.87
ATOM		OH2	TIP3	32	84.613	22.791	54.244	1.00	64.87
ATOM		OH2	TIP3	33	71.143	49.227	43.011	1.00	36.07
ATOM		OH2	TIP3	34	72.527	52.824	53.213	1.00	5.56
ATOM		OH2	TIP3	35	80 116	46.082	38.809	1.00	44.35
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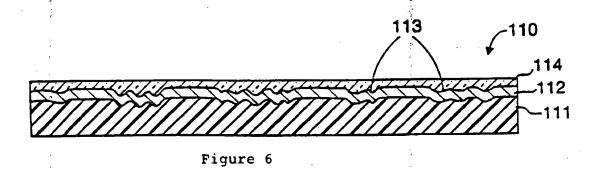
ATOM 2719 OH2 TIP3 38 77.283 35.181 38.894 1.00 36.34 ATOM 2720 OH2 TIP3 39 67.275 62.937 39.441 1.00 39.30 ATOM 2722 OH2 TIP3 40 95.912 77.587 39.202 1.00 37.03 ATOM 2723 OH2 TIP3 41 87.028 46.815 50.178 1.00 14.09 ATOM 2724 OH2 TIP3 42 70.710 55.468 34.204 1.00 7.82 ATOM 2725 OH2 TIP3 44 87.079 55.468 34.204 1.00 7.82 ATOM 2726 OH2 TIP3 44 90.719 39.572 46.110 1.00 29.46 ATOM 2726 OH2 TIP3 44 90.719 39.572 46.110 1.00 29.46 ATOM 2726 OH2 TIP3 45 88.956 32.992 50.562 1.00 26.01 ATOM 2727 OH2 TIP3 47 99.173 61.794 37.290 1.00 31.61 ATOM 2728 OH2 TIP3 48 106.963 58.636 47.340 1.00 36.68 ATOM 2731 OH2 TIP3 49 85.142 35.133 43.034 1.00 19.23 ATOM 2731 OH2 TIP3 50 71.616 67.146 35.073 1.00 36.90 ATOM 2733 OH2 TIP3 51 75.665 23.589 68.938 1.00 31.60 ATOM 2736 OH2 TIP3 52 84.026 47.614 42.760 1.00 26.85 ATOM 2736 OH2 TIP3 55 78.665 23.589 68.938 1.00 21.65 ATOM 2736 OH2 TIP3 55 89.401 56.479 39.758 1.00 21.65 ATOM 2736 OH2 TIP3 55 89.601 47.540 1.00 39.90 ATOM 2739 OH2 TIP3 55 89.601 47.502 1.00 43.43 ATOM 2739 OH2 TIP3 55 89.623 49.854 35.111 1.00 22.90 ATOM 2739 OH2 TIP3 58 85.616 73.094 31.597 1.00 24.68 ATOM 2739 OH2 TIP3 58 86.253 47.246 59.568 1.00 24.68 ATOM 2740 OH2 TIP3 59 86.253 47.246 59.568 1.00 24.67 ATOM 2740 OH2 TIP3 60 98.881 66.884 37.033 1.00 32.28 ATOM 2740 OH2 TIP3 60 98.881 65.884 37.033 1.00 32.28 ATOM 2740 OH2 TIP3 60 98.881 65.884 37.033 1.00 32.28 ATOM 2740 OH2 TIP3 61 99.686 1.00 33.07 ATOM 2740 OH2 TIP3 63 99.184 62.243 48.341 1.00 22.90 ATOM 2740 OH2 TIP3 64 94.689 46.022 46.815 1.00 44.32 ATOM 2740 OH2 TIP3 67 94.689 47.094 59.558 1.00 24.37 ATOM 2740 OH2 TIP3 68 60.096 46.026 46.165 1.00 33.07 ATOM 2740 OH2 TIP3 69 60.343 47.893 30.686 1.00 33.07 ATOM 2740 OH2 TIP3 68 60.096 46.022 30.099 1.00 45.35 ATOM 2740 OH2 TIP3 68 60.096 46.022 30.099 1.00 45.35 ATOM 2740 OH2 TIP3 68 60.096 46.022 30.099 1.00 45.35 ATOM 2750 OH2 TIP3 68 60.096 46.022 30.099 1.00 45.35 ATOM 2750 OH2 TIP3 77 90.384 42.253 62.669 1.00 45.35 ATOM 2750 OH2 TIP3 79 90.384 42.253 62.669 1.00 45.35 ATOM 2750 OH2 TIP3 79 9								-	<u>.</u>	
ATOM 2720 OH2 TIP3 38 77.283 35.181 38.894 1.00 36.34 ATOM 2721 OH2 TIP3 39 67.275 62.937 39.441 1.00 39.30 ATOM 2722 OH2 TIP3 40 95.912 77.587 39.202 1.00 37.03 ATOM 2723 OH2 TIP3 41 87.028 46.815 50.178 1.00 14.09 ATOM 2725 OH2 TIP3 42 70.710 55.468 34.204 1.00 7.82 ATOM 2726 OH2 TIP3 44 90.719 39.572 46.110 1.00 29.46 ATOM 2727 OH2 TIP3 45 88.956 32.992 50.562 1.00 26.10 ATOM 2728 OH2 TIP3 45 88.956 32.992 50.562 1.00 26.10 ATOM 2729 OH2 TIP3 46 99.309 29.693 67.462 1.00 19.97 ATOM 2729 OH2 TIP3 48 106.963 58.636 47.340 1.00 19.97 ATOM 2730 OH2 TIP3 48 106.963 58.636 47.340 1.00 19.23 ATOM 2731 OH2 TIP3 49 85.142 35.133 43.034 1.00 19.23 ATOM 2733 OH2 TIP3 50 71.616 67.146 35.073 1.00 36.90 ATOM 2733 OH2 TIP3 51 75.865 23.589 68.938 1.00 31.60 ATOM 2733 OH2 TIP3 52 84.026 47.614 42.760 1.00 26.85 ATOM 2736 OH2 TIP3 53 99.401 56.479 39.758 1.00 24.68 ATOM 2737 OH2 TIP3 55 98.623 49.854 35.111 1.00 43.99 ATOM 2738 OH2 TIP3 56 92.451 75.669 27.711 1.00 43.99 ATOM 2739 OH2 TIP3 56 92.451 75.669 27.711 1.00 43.99 ATOM 2731 OH2 TIP3 56 92.451 75.669 27.711 1.00 43.99 ATOM 2731 OH2 TIP3 56 98.633 49.854 35.111 1.00 22.90 ATOM 2731 OH2 TIP3 56 98.631 49.854 35.111 1.00 22.90 ATOM 2730 OH2 TIP3 58 95.616 73.094 31.597 1.00 27.62 ATOM 2730 OH2 TIP3 58 95.616 73.094 31.597 1.00 27.62 ATOM 2740 OH2 TIP3 66 99.881 56.884 37.033 1.00 32.28 ATOM 2741 OH2 TIP3 66 99.881 56.884 37.033 1.00 32.28 ATOM 2743 OH2 TIP3 66 99.881 56.894 34.841 1.00 25.79 ATOM 2745 OH2 TIP3 67 94.669 46.032 46.815 1.00 27.72 ATOM 2745 OH2 TIP3 67 94.669 46.032 46.815 1.00 33.31 ATOM 2755 OH2 TIP3 77 99.165 47.004 58.270 1.00 49.51 ATOM 2756 OH2 TIP3 78 88.0377 79.01 39.995 1.00 32.90 ATOM 2756 OH2 TIP3 79 90.165 47.004 58.270 1.00 49.51 ATOM 2757 OH2 TIP3 79 90.165 47.004 58.270 1.00 49.51 ATOM 2756 OH2 TIP3 79 90.165 47.004 58.301 1.00 30.64 ATOM 2757 OH2 TIP3 79 90.165 47.004 58.70 1.00 49.51 ATOM 2758 OH2 TIP3 79 90.165 47.004 58.70 1.00 49.51 ATOM 2756 OH2 TIP3 79 90.165 47.004 58.281 1.00 30.97 ATOM 2756 OH2 TIP3 79 90.165 47.004 58.281 1.00 3		ATOM 2719	OH2	TIP3	36	65.304	58.306	50.404	1.00	50.48
ATOM 2722 OH2 TIP3 40 95.912 77.587 39.202 1.00 37.03 ATOM 2723 OH2 TIP3 41 87.028 46.815 50.178 1.00 14.09 ATOM 2724 OH2 TIP3 42 70.710 55.468 34.204 1.00 7.82 ATOM 2725 OH2 TIP3 43 87.279 67.965 49.287 1.00 29.46 ATOM 2726 OH2 TIP3 44 90.719 39.572 46.110 1.00 29.46 ATOM 2727 OH2 TIP3 45 88.956 32.992 50.562 1.00 26.01 ATOM 2728 OH2 TIP3 46 99.309 29.693 67.462 1.00 19.97 ATOM 2729 OH2 TIP3 47 99.173 61.794 37.290 1.00 31.61 ATOM 2730 OH2 TIP3 48 106.963 58.636 47.340 1.00 38.68 ATOM 2730 OH2 TIP3 49 85.142 35.133 49.034 1.00 19.23 ATOM 2732 OH2 TIP3 50 71.616 67.146 35.073 1.00 36.68 ATOM 2733 OH2 TIP3 50 71.616 67.146 35.073 1.00 36.68 ATOM 2735 OH2 TIP3 51 75.865 23.589 68.938 1.00 31.60 ATOM 2735 OH2 TIP3 53 99.401 56.479 39.758 1.00 24.68 ATOM 2736 OH2 TIP3 53 99.401 56.479 39.758 1.00 24.68 ATOM 2737 OH2 TIP3 54 68.040 27.725 53.497 1.00 43.99 ATOM 2738 OH2 TIP3 55 78.583 39.197 40.332 1.00 44.43 ATOM 2739 OH2 TIP3 56 92.451 75.069 27.711 1.00 44.43 ATOM 2739 OH2 TIP3 58 95.616 73.094 31.597 1.00 22.90 ATOM 2730 OH2 TIP3 58 95.616 73.094 31.597 1.00 22.90 ATOM 2730 OH2 TIP3 58 95.616 73.094 31.597 1.00 22.90 ATOM 2740 OH2 TIP3 58 95.616 73.094 31.597 1.00 22.90 ATOM 2740 OH2 TIP3 66 99.881 56.884 37.033 1.00 32.28 ATOM 2740 OH2 TIP3 66 99.881 56.894 37.033 1.00 32.28 ATOM 2740 OH2 TIP3 66 99.881 56.894 37.033 1.00 32.28 ATOM 2740 OH2 TIP3 66 107.913 59.670 50.434 1.00 40.79 ATOM 2740 OH2 TIP3 66 102.733 70.701 43.239 1.00 22.91 ATOM 2750 OH2 TIP3 67 94.669 46.032 48.815 1.00 31.75 ATOM 2750 OH2 TIP3 67 94.669 46.032 48.815 1.00 31.75 ATOM 2750 OH2 TIP3 68 100.962 67.281 48.341 1.00 52.93 ATOM 2750 OH2 TIP3 69 76.471 32.299 61.366 1.00 33.07 ATOM 2750 OH2 TIP3 69 76.478 37.405 40.145 1.00 43.99 ATOM 2750 OH2 TIP3 67 94.669 46.032 46.815 1.00 31.75 ATOM 2750 OH2 TIP3 68 99.146 49.2283 40.686 1.00 33.07 ATOM 2750 OH2 TIP3 69 76.478 37.405 40.145 1.00 49.51 ATOM 2750 OH2 TIP3 77 90.165 47.004 58.770 1.00 49.51 ATOM 2750 OH2 TIP3 78 89.925 77.004 58.770 1.00 49.51 ATOM 2750 OH2 TIP3 79 90.165 47.004 58.770 1			OH2	TIP3	38	77.283	35.181	38.894	1.00	36.34
ATOM 2723 OH2 TIP3 41 87.028 46.815 50.178 1.00 14.09 ATOM 2724 OH2 TIP3 42 70.710 55.468 34.204 1.00 7.82 ATOM 2725 OH2 TIP3 43 87.279 67.965 49.287 1.00 23.95 ATOM 2726 OH2 TIP3 44 90.719 39.572 46.110 1.00 29.46 ATOM 2727 OH2 TIP3 45 88.956 32.992 50.562 1.00 26.01 ATOM 2728 OH2 TIP3 46 99.309 29.689 67.462 1.00 19.97 ATOM 2729 OH2 TIP3 47 99.173 61.794 37.290 1.00 31.61 ATOM 2731 OH2 TIP3 48 106.963 58.636 47.340 1.00 36.68 ATOM 2731 OH2 TIP3 50 71.616 67.146 35.073 1.00 36.90 ATOM 2733 OH2 TIP3 51 75.865 23.589 68.938 1.00 31.60 ATOM 2734 OH2 TIP3 53 99.401 56.479 39.758 1.00 26.85 ATOM 2735 OH2 TIP3 53 99.401 56.479 39.758 1.00 21.95 ATOM 2737 OH2 TIP3 54 68.040 27.725 53.497 1.00 24.68 ATOM 2737 OH2 TIP3 56 89.2451 75.069 27.711 1.00 44.43 ATOM 2737 OH2 TIP3 57 88.863 39.197 40.332 1.00 24.68 ATOM 2739 OH2 TIP3 58 95.616 73.094 31.597 1.00 24.68 ATOM 2740 OH2 TIP3 58 86.253 47.246 59.568 1.00 24.37 ATOM 2741 OH2 TIP3 58 86.253 47.246 59.568 1.00 22.90 ATOM 2743 OH2 TIP3 61 107.913 59.670 50.434 1.00 40.73 ATOM 2744 OH2 TIP3 63 99.881 56.884 35.111 1.00 24.68 ATOM 2745 OH2 TIP3 64 99.483 47.893 40.686 1.00 33.31 ATOM 2746 OH2 TIP3 66 98.881 56.884 37.033 1.00 24.37 ATOM 2747 OH2 TIP3 66 98.881 56.884 37.033 1.00 24.37 ATOM 2746 OH2 TIP3 67 94.669 46.032 46.815 1.00 29.77 ATOM 2747 OH2 TIP3 67 94.669 46.032 46.815 1.00 29.77 ATOM 2746 OH2 TIP3 68 100.962 67.281 48.137 1.00 52.93 ATOM 2750 OH2 TIP3 70 90.165 47.004 58.770 1.00 35.21 ATOM 2750 OH2 TIP3 77 90.384 42.253 62.669 1.00 35.31 ATOM 2750 OH2 TIP3 78 80.077.910 30.979 1.00 43.29 ATOM 2750 OH2 TIP3 77 90.384 42.253 62.669 1.00 36.66 ATOM 2750 OH2 TIP3 78 80.077.79 30.979 1.00 43.29 ATOM 2756 OH2 TIP3 77 90.384 42.253 62.669 1.00 36.36 ATOM 2756 OH2 TIP3 78 80.777 36.376 73.095 1.00 36.36 ATOM 2756 OH2 TIP3 78 80.777 36.376 73.095 1.00 36.36 ATOM 2756 OH2 TIP3 77 90.384 42.253 62.669 1.00 36.36 ATOM 2756 OH2 TIP3 78 80.9777 36.376 73.095 1.00 35.91 ATOM 2766 OH2 TIP3 78 80.9777 36.376 73.095 1.00 35.68 ATOM 2767 OH2 TIP3 78 80.9777 36.376 73.095 1.00 3		ATOM 2721	OH2	TIP3	39	67.275	62.937	39.441	1.00	39.30
ATOM 2724 OH2 TIP3 42 70.710 55.468 34.204 1.00 7.82 ATOM 2725 OH2 TIP3 43 87.279 67.965 49.287 1.00 23.95 ATOM 2726 OH2 TIP3 44 90.719 39.572 46.110 1.00 29.46 ATOM 2727 OH2 TIP3 45 88.956 32.992 50.562 1.00 29.46 ATOM 2729 OH2 TIP3 46 99.309 29.693 67.462 1.00 19.97 ATOM 2729 OH2 TIP3 47 99.173 61.794 37.290 1.00 31.61 ATOM 2730 OH2 TIP3 48 106.963 58.636 47.340 1.00 36.68 ATOM 2731 OH2 TIP3 49 85.142 35.133 43.034 1.00 19.23 ATOM 2732 OH2 TIP3 50 71.616 67.146 35.073 1.00 36.90 ATOM 2733 OH2 TIP3 51 75.865 23.589 68.938 1.00 31.60 ATOM 2733 OH2 TIP3 52 84.026 47.614 42.760 1.00 26.85 ATOM 2735 OH2 TIP3 53 99.401 56.479 39.758 1.00 21.95 ATOM 2736 OH2 TIP3 55 78.863 39.917 40.332 1.00 24.68 ATOM 2737 OH2 TIP3 55 78.863 39.917 40.332 1.00 24.68 ATOM 2738 OH2 TIP3 55 78.863 39.917 40.332 1.00 24.68 ATOM 2739 OH2 TIP3 55 89.623 49.854 35.111 1.00 24.43 ATOM 2730 OH2 TIP3 56 92.451 75.069 27.711 1.00 44.43 ATOM 2730 OH2 TIP3 58 95.616 73.094 31.5197 1.00 22.90 ATOM 2740 OH2 TIP3 58 95.623 49.854 35.111 1.00 22.90 ATOM 2740 OH2 TIP3 68 95.616 73.094 31.5197 1.00 27.62 ATOM 2740 OH2 TIP3 69 86.253 47.246 59.568 1.00 24.37 ATOM 2740 OH2 TIP3 63 99.881 56.884 37.033 1.00 32.28 ATOM 2740 OH2 TIP3 63 99.881 56.864 37.033 1.00 32.28 ATOM 2740 OH2 TIP3 63 99.184 62.943 48.341 1.00 52.73 ATOM 2744 OH2 TIP3 64 92.483 47.893 40.686 1.00 33.31 ATOM 2746 OH2 TIP3 66 102.733 70.701 43.293 1.00 25.74 ATOM 2747 OH2 TIP3 66 102.733 70.701 43.293 1.00 25.75 ATOM 2749 OH2 TIP3 67 94.669 46.032 46.815 1.00 33.75 ATOM 2745 OH2 TIP3 70 90.165 47.004 58.770 1.00 49.51 ATOM 2755 OH2 TIP3 77 99.384 42.253 62.669 1.00 33.97 ATOM 2755 OH2 TIP3 77 99.384 42.253 62.669 1.00 35.68 ATOM 2756 OH2 TIP3 78 88.037 29.259 75.147 1.00 56.66 ATOM 2757 OH2 TIP3 79 90.384 42.253 62.669 1.00 45.35 ATOM 2765 OH2 TIP3 79 90.384 42.253 62.669 1.00 45.57 ATOM 2765 OH2 TIP3 79 90.384 42.253 62.669 1.00 45.57 ATOM 2766 OH2 TIP3 79 90.384 42.253 62.669 1.00 45.57 ATOM 2767 OH2 TIP3 79 90.384 42.253 62.669 1.00 45.57 ATOM 2767 OH2 TIP3 79 90.384 42.253 62.669 1		ATOM 2722		TIP3	40	95.912	77.587	39.202	1.00	
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ATOM 2750 OH2 TIP3 68 100.962 67.281 48.137 1.00 52.13 ATOM 2751 OH2 TIP3 69 76.478 37.405 40.145 1.00 25.79 ATOM 2752 OH2 TIP3 70 90.165 47.004 58.770 1.00 49.51 ATOM 2753 OH2 TIP3 71 89.912 38.696 43.283 1.00 41.39 ATOM 2754 OH2 TIP3 72 78.867 77.910 30.979 1.00 43.29 ATOM 2755 OH2 TIP3 73 105.807 71.061 33.955 1.00 35.91 ATOM 2756 OH2 TIP3 74 94.956 46.168 41.472 1.00 32.83 ATOM 2757 OH2 TIP3 75 81.755 20.284 64.565 1.00 36.36 ATOM 2758 OH2 TIP3 76 83.777 36.376 73.095 1.00 35.68 ATOM 2759 OH2 TIP3 77 90.384 42.253 62.669 1.00 45.35 ATOM 2760 OH2 TIP3 78 88.037 29.259 75.147 1.00 56.66 ATOM 2761 OH2 TIP3 79 101.859 65.470 26.683 1.00 39.64 ATOM 2762 OH2 TIP3 80 71.347 27.770 73.090 1.00 46.49 ATOM 2763 OH2 TIP3 81 105.055 72.336 36.481 1.00 34.57 ATOM 2764 OH2 TIP3 82 89.487 32.603 43.952 1.00 55.98 ATOM 2766 OH2 TIP3 83 82.955 70.726 51.485 1.00 31.53 ATOM 2766 OH2 TIP3 84 104.149 69.529 35.834 1.00 22.24 ATOM 2767 OH2 TIP3 88 99.143 58.146 34.137 1.00 31.08 ATOM 2768 OH2 TIP3 88 99.143 58.146 34.137 1.00 31.08 ATOM 2768 OH2 TIP3 88 99.143 58.146 34.137 1.00 31.08 ATOM 2769 OH2 TIP3 88 99.143 58.146 34.137 1.00 31.08		ATOM 2748	OH2	TIP3	66	102.733	70.701	43.239	1.00	52.51
ATOM 2751 OH2 TIP3 69 76.478 37.405 40.145 1.00 25.79 ATOM 2752 OH2 TIP3 70 90.165 47.004 58.770 1.00 49.51 ATOM 2753 OH2 TIP3 71 89.912 38.696 43.283 1.00 41.39 ATOM 2754 OH2 TIP3 72 78.867 77.910 30.979 1.00 43.29 ATOM 2755 OH2 TIP3 73 105.807 71.061 33.955 1.00 35.91 ATOM 2756 OH2 TIP3 74 94.956 46.168 41.472 1.00 32.83 ATOM 2757 OH2 TIP3 75 81.755 20.284 64.565 1.00 36.36 ATOM 2758 OH2 TIP3 76 83.777 36.376 73.095 1.00 35.68 ATOM 2759 OH2 TIP3 77 90.384 42.253 62.669 1.00 45.35 ATOM 2760 OH2 TIP3 78 88.037 29.259 75.147 1.00 56.66 ATOM 2761 OH2 TIP3 79 101.859 65.470 26.683 1.00 39.64 ATOM 2762 OH2 TIP3 80 71.347 27.770 73.090 1.00 46.49 ATOM 2763 OH2 TIP3 81 105.055 72.336 36.481 1.00 34.57 ATOM 2764 OH2 TIP3 82 89.487 32.603 43.952 1.00 35.98 ATOM 2766 OH2 TIP3 83 82.955 70.726 51.485 1.00 31.53 ATOM 2766 OH2 TIP3 84 104.149 69.529 35.834 1.00 22.24 ATOM 2767 OH2 TIP3 87 97.144 58.485 29.113 1.00 38.50 ATOM 2768 OH2 TIP3 88 99.143 58.146 34.137 1.00 31.08 ATOM 2769 OH2 TIP3 89 93.402 76.905 45.088 1.00 58.17		ATOM 2749	OH2	TIP3	67	94.669	46.032		1.00	
ATOM 2752 OH2 TIP3 70 90.165 47.004 58.770 1.00 49.51 ATOM 2753 OH2 TIP3 71 89.912 38.696 43.283 1.00 41.39 ATOM 2754 OH2 TIP3 72 78.867 77.910 30.979 1.00 43.29 ATOM 2755 OH2 TIP3 73 105.807 71.061 33.955 1.00 35.91 ATOM 2756 OH2 TIP3 74 94.956 46.168 41.472 1.00 32.83 ATOM 2757 OH2 TIP3 75 81.755 20.284 64.565 1.00 36.36 ATOM 2758 OH2 TIP3 76 83.777 36.376 73.095 1.00 35.68 ATOM 2759 OH2 TIP3 77 90.384 42.253 62.669 1.00 45.35 ATOM 2760 OH2 TIP3 78 88.037 29.259 75.147 1.00 56.66 ATOM 2761 OH2 TIP3 79 101.859 65.470 26.683 1.00 39.64 ATOM 2762 OH2 TIP3 80 71.347 27.770 73.090 1.00 46.49 ATOM 2763 OH2 TIP3 81 105.055 72.336 36.481 1.00 34.57 ATOM 2764 OH2 TIP3 82 89.487 32.603 43.952 1.00 55.98 ATOM 2765 OH2 TIP3 83 82.955 70.726 51.485 1.00 31.53 ATOM 2766 OH2 TIP3 84 104.149 69.529 35.834 1.00 22.24 ATOM 2767 OH2 TIP3 87 97.144 58.485 29.113 1.00 38.50 ATOM 2768 OH2 TIP3 88 99.143 58.146 34.137 1.00 31.08 ATOM 2769 OH2 TIP3 88 99.143 58.146 34.137 1.00 31.08 ATOM 2769 OH2 TIP3 89 93.402 76.905 45.088 1.00 58.17		ATOM 2750	OH2	TIP3	68	100.962	67.281			
ATOM 2753 OH2 TIP3 71 89.912 38.696 43.283 1.00 41.39 ATOM 2754 OH2 TIP3 72 78.867 77.910 30.979 1.00 43.29 ATOM 2755 OH2 TIP3 73 105.807 71.061 33.955 1.00 35.91 ATOM 2756 OH2 TIP3 74 94.956 46.168 41.472 1.00 32.83 ATOM 2757 OH2 TIP3 75 81.755 20.284 64.565 1.00 36.36 ATOM 2758 OH2 TIP3 76 83.777 36.376 73.095 1.00 35.68 ATOM 2759 OH2 TIP3 77 90.384 42.253 62.669 1.00 45.35 ATOM 2760 OH2 TIP3 78 88.037 29.259 75.147 1.00 56.66 ATOM 2761 OH2 TIP3 79 101.859 65.470 26.683 1.00 39.64 ATOM 2762 OH2 TIP3 80 71.347 27.770 73.090 1.00 46.49 ATOM 2763 OH2 TIP3 81 105.055 72.336 36.481 1.00 34.57 ATOM 2764 OH2 TIP3 82 89.487 32.603 43.952 1.00 55.98 ATOM 2766 OH2 TIP3 84 104.149 69.529 35.834 1.00 22.24 ATOM 2767 OH2 TIP3 87 97.144 58.485 29.113 1.00 38.50 ATOM 2768 OH2 TIP3 88 99.143 58.146 34.137 1.00 31.08 ATOM 2769 OH2 TIP3 88 99.143 58.146 34.137 1.00 58.17		ATOM 2751	OH2	TIP3	69	76.478	37.405			
ATOM 2754 OH2 TIP3 72 78.867 77.910 30.979 1.00 43.29 ATOM 2755 OH2 TIP3 73 105.807 71.061 33.955 1.00 35.91 ATOM 2756 OH2 TIP3 74 94.956 46.168 41.472 1.00 32.83 ATOM 2757 OH2 TIP3 75 81.755 20.284 64.565 1.00 36.36 ATOM 2758 OH2 TIP3 76 83.777 36.376 73.095 1.00 35.68 ATOM 2759 OH2 TIP3 77 90.384 42.253 62.669 1.00 45.35 ATOM 2760 OH2 TIP3 78 88.037 29.259 75.147 1.00 56.66 ATOM 2761 OH2 TIP3 79 101.859 65.470 26.683 1.00 39.64 ATOM 2762 OH2 TIP3 80 71.347 27.770 73.090 1.00 46.49 ATOM 2763 OH2 TIP3 81 105.055 72.336 36.481 1.00 34.57 ATOM 2764 OH2 TIP3 82 89.487 32.603 43.952 1.00 55.98 ATOM 2765 OH2 TIP3 83 82.955 70.726 51.485 1.00 31.53 ATOM 2766 OH2 TIP3 84 104.149 69.529 35.834 1.00 22.24 ATOM 2767 OH2 TIP3 87 97.144 58.485 29.113 1.00 38.50 ATOM 2768 OH2 TIP3 88 99.143 58.146 34.137 1.00 31.08 ATOM 2769 OH2 TIP3 88 93.402 76.905 45.088 1.00 58.17										
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ATOM 2761       OH2       TIP3       79       101.859       65.470       26.683       1.00       39.64         ATOM 2762       OH2       TIP3       80       71.347       27.770       73.090       1.00       46.49         ATOM 2763       OH2       TIP3       81       105.055       72.336       36.481       1.00       34.57         ATOM 2764       OH2       TIP3       82       89.487       32.603       43.952       1.00       55.98         ATOM 2765       OH2       TIP3       83       82.955       70.726       51.485       1.00       31.53         ATOM 2766       OH2       TIP3       84       104.149       69.529       35.834       1.00       22.24         ATOM 2767       OH2       TIP3       87       97.144       58.485       29.113       1.00       38.50         ATOM 2768       OH2       TIP3       88       99.143       58.146       34.137       1.00       31.08         ATOM 2769       OH2       TIP3       89       93.402       76.905       45.088       1.00       58.17										
ATOM 2762       OH2       TIP3       80       71.347       27.770       73.090       1.00       46.49         ATOM 2763       OH2       TIP3       81       105.055       72.336       36.481       1.00       34.57         ATOM 2764       OH2       TIP3       82       89.487       32.603       43.952       1.00       55.98         ATOM 2765       OH2       TIP3       83       82.955       70.726       51.485       1.00       31.53         ATOM 2766       OH2       TIP3       84       104.149       69.529       35.834       1.00       22.24         ATOM 2767       OH2       TIP3       87       97.144       58.485       29.113       1.00       38.50         ATOM 2768       OH2       TIP3       88       99.143       58.146       34.137       1.00       31.08         ATOM 2769       OH2       TIP3       89       93.402       76.905       45.088       1.00       58.17				•					•	
ATOM 2763 OH2 TIP3 81 105.055 72.336 36.481 1.00 34.57 ATOM 2764 OH2 TIP3 82 89.487 32.603 43.952 1.00 55.98 ATOM 2765 OH2 TIP3 83 82.955 70.726 51.485 1.00 31.53 ATOM 2766 OH2 TIP3 84 104.149 69.529 35.834 1.00 22.24 ATOM 2767 OH2 TIP3 87 97.144 58.485 29.113 1.00 38.50 ATOM 2768 OH2 TIP3 88 99.143 58.146 34.137 1.00 31.08 ATOM 2769 OH2 TIP3 89 93.402 76.905 45.088 1.00 58.17										
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ATOM 2770	OH2	TIP3	91	98.629	61.636	<sup></sup> 27.795	1.00	44.47
ATOM 2771	OH2	TIP3	93	92.075	77.451	42.668	1.00	46.15
ATOM 2772		TIP3	94	94.761	55.023	38.581	1.00	43.31
ATOM 2773		TIP3	95	94.860	63.387	30.662	1.00	23.26
ATOM 2774		TIP3	97	96.495	61.394	31.222	1.00	17.95
ATOM 2775	OH2	TIP3	99	97.135	61.058	33.735	1.00	24.21
ATOM 2776		TIP3	100	98.598	62.340	24.703	1.00	15.55
ATOM 2777		TIP3	100			.**		16.64
	OH2	TIP3		96.091	63.609	25.209	1.00	
ATOM 2778			102	95.591	62.210	28.267	1.00	28.35
ATOM 2779	OH2	TIP3	103	84.181	68.384	51.386	1.00	37.36
ATOM 2780	OH2	TIP3	104	90.542	76.184	46.889	1.00	50.54
ATOM 2781	OH2	TIP3	105	87.338	52.422	§55.348	1.00	57.64
ATOM 2782	OH2	TIP3	106	86.485	55.114	55.782	1.00	53.13
ATOM 2783	OH2	TIP3	107	71.978	33.253	38.083	1.00	37.67
ATOM 2784	OH2	TIP3	108	86.389	52.030	52.810	1.00	45.08
ATOM 2785	OH2	TIP3	109	88.375	44.898	§51.380	1.00	45.72
ATOM 2786	OH2	TIP3	110	76.040	31.693	38.282	1.00	49.11
ATOM 2787	OH2	TIP3	111	88.171	23.460	70.887	1.00	34.87
ATOM 2788	OH2	TIP3	112	81.925	26.203	₹48.120	1.00	34.21
ATOM 2789	OH2	TIP3	113	75.036	35.002	§37.397	1.00	43.93
ATOM 2790	OH2	TIP3	114	66.842	37.170	41.543	1.00	37.92
ATOM 2791	OH2	TIP3	115	74.137	22.561	64.810	1.00	39.94
ATOM 2792	OH2	TIP3	116	75.230	29.105	47.361	1.00	33.31
ATOM 2793	OH2	TIP3	117	71.548	35.570	75.085	1.00	51.53
ATOM 2794	OH2	TIP3	118	91.190	40.939	65.032	1.00	59.85
ATOM 2795	OH2	TIP3	119	89.208	54.691	55.131	1.00	49.67
ATOM 2796	OH2	TIP3	120	87.603	20.791	70.317	1.00	41.15
ATOM 2797	OH2	TIP3	121	82.007	24.661	44.978	1.00	44.91
ATOM 2798	OH2	TIP3	122	67.254	62.385	54.134	1.00	55.45
ATOM 2799	OH2	TIP3	123	69.652	50.335	60.131	1.00	56.04
ATOM 2800	OH2	TIP3	124	91.100	35.309	64.126	1.00	10.24
ATOM 2801	OH2	TIP3	125	75.803	55.613	55.160	1.00	19.38
ATOM 2802	OH2	TIP3	126	67.414	58.406	48.372	1.00	50.59
ATOM 2803	OH2	TIP3	127	61.992	60.345	41.276	1.00	54.28
ATOM 2804	OH2	TIP3	128	100.397	72.990	35.528	1.00	47.93
ATOM 2805		TIP3	129	78.374	54.246	34.009	1.00	25.64
ATOM 2806	OH2	TIP3	130	74.448	74.269	39.281	1.00	43.21
ATOM 2807	OH2	TIP3	131	64.202	44.752	43.474	1.00	
ATOM 2808	OH2	TIP3	132					49.87
			•	88.521	75.111 56.754	27.052	1.00	58.72
ATOM 2809	OH2	TIP3	133	69.530	56.754	48.247	1.00	28.48
ATOM 2810	OH2	TIP3	134	79.780	77.649	41.569	1.00	58.74
ATOM 2811	OH2	TIP3	135	88.780	33.735	64.655	1.00	36.24
ATOM 2812	OH2	TIP3	136	104.389	57.542	20.144	1.00	59.52
ATOM 2813	OH2	TIP3	137	64.410	59.785	53.812	1.00	52.08
ATOM 2814	OH2	TIP3	138	99.184	58.625	27.266	1.00	30.88
ATOM 2815	OH2	TIP3	139	101.746	57.264	20.715	1.00	37.99
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INIERNATIONAL SEARCH REPORT

Inter onal Application No

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PCT/US 97/16182

A. CLASSIFICATION OF SUBJECT MATTER IPC 6 C07K14/18 C07K1/00

G06F17/50

C30B7/00

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 CO7K GO6F C30B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

13

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	C LIN ET AL.: "A central region in the hepatitis C virus NS4A protein allows formation of an active NS3-NS4A serine proteinase complex in vivo and in vitro" JOURNAL OF VIROLOGY., vol. 69, no. 7, July 1995, AMERICAN SOCIETY FOR MICROBIOLOGY US, pages 4373-4380, XP002053691 see the whole document	1-3
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Y Further documents are listed in the continuation of	box (	С
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X Patent family members are listed in annex.

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13/02/1998

28 January 1998

Name and mailing address of the ISA

European Patent Office. P.B. 5818 Patentlaan;2

NL - 2280 HV Rijswijk

Tel. (+31-70) 340-2040, Tx. 31 651 epo nt.

Fax: (+31-70) 340-3016

Authorized officer,

Masturzo, P

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Calegory	R BARTENSCHLAGER ET AL.: "Complex formation between the NS3 serine-type proteinase of the hepatitis C virus and NS4A and its importance for polyprotein maturation "JOURNAL OF VIROLOGY., vol. 69, no. 12, December 1995, AMERICAN SOCIETY FOR MICROBIOLOGY US, pages 7519-7528, XP002053692 see the whole document  WO 95 22985 A (ISTITUTO ANGELETTI) 31 August 1995 see claims 5,6	STANCE STANCE OF THE STANCE OF	Refevant to claim No.
(	R BARTENSCHLAGER ET AL.: "Complex formation between the NS3 serine-type proteinase of the hepatitis C virus and NS4A and its importance for polyprotein maturation"  JOURNAL OF VIROLOGY., vol. 69, no. 12, December 1995, AMERICAN SOCIETY FOR MICROBIOLOGY US, pages 7519-7528, XP002053692 see the whole document  WO 95 22985 A (ISTITUTO ANGELETTI) 31		1,2
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), X	J L KIM ET AL.: "Crystal structure of the hepatitis C virus NS3 protease domain complexed with a synthetic NS4A cofactor peptide"		1-14
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Inter: vnal Application No PCT/US 97/16182

	ocuments arch report	Publication date			Patent family member(s)		Publication date
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